DIMSY

Digital Cinema Communicator for S2

Installation Manual

Important Information

Precautions

Please read this manual carefully before using your NC-TP6402/NC-TP6401 Touch Panel Controller and keep the manual handy for future reference.

⚠ CAUTION

To turn off main power, be sure to remove the plug from power outlet.
The power outlet socket should be installed as near to the equipment as possible, and should be easily accessible.

⚠ CAUTION

TO PREVENT SHOCK, DO NOT OPEN THE CABINET. NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

This symbol warns the user that uninsulated voltage within the unit may be sufficient to cause electrical shock. Therefore, it is dangerous to make any kind of contact with any part inside of the unit.

This symbol alerts the user that important information concerning the operation and maintenance of this unit has been provided.
The information should be read carefully to avoid problems.

WARNING

TO PREVENT FIRE, SHOCK, OR OTHER HAZARDS, DO NOT EXPOSE THIS UNIT TO RAIN OR MOISTURE.
DO NOT USE THIS UNIT'S GROUNDED PLUG WITH AN EXTENSION CORD OR IN AN OUTLET UNLESS ALL THREE PRONGS CAN BE FULLY INSERTED.
DO NOT OPEN THE CABINET. THERE ARE HIGH VOLTAGE COMPONENTS INSIDE. ALL SERVICING MUST BE DONE BY QUALIFIED SERVICE PERSONNEL.

DOC Compliance Notice for Europe

This Class B digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.

Machine Noise Information Regulation - 3. GPSGV,

The highest sound pressure level is less than 70 dB (A) in accordance with EN ISO 7779.

AC power cable (NC-TH6403 accessory) for UK

In UK, a BS approved power cable with moulded plug has a Black (five Amps) fuse installed for use with this equipment.
If a power cable is not supplied with this equipment, please contact your supplier.

- Other product and company names mentioned in this user's manual may be the trademarks of their respective holders.

NC-TP6402
RF Interference (for USA only)

WARNING

This is a Class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

CAUTION

- In order to reduce any interference with radio and television reception use a signal cable with ferrite core attached. Use of signal cables without a ferrite core attached may cause interference with radio and television reception.
- This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the installation manual, may cause harmful interference to radio communications.
  Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

CAUTION

Do not press firmly the surface of the liquid crystal panel or the frame of the touch panel; they may be scratched or break down. Do not have the liquid crystal panel touched with a sharp-pointed tool such as a mechanical pencil or a screwdriver.

Should the liquid crystal panel be damaged, do not put the internal liquid into your mouth or touch it. If the liquid gets in your mouth, gargle immediately. If the liquid comes in contact with your skin or it gets in your eye, first rinse your skin or eye with running water for more than 15 minutes and then consult medical attention immediately.

For questions relating to unclear points or repairs

Contact your dealer or the following support branches for questions relating to unclear points, malfunctions and repairs of the product.

Table of Contents

Important Information 2

Table of Contents 5

1. Overview of Software 8

1-1. Overview of DCC 8

1-1-1. Operating environment of PC version DCC 8

1-2. DCC installation/version upgrading 9

1-2-1. DCC (touch panel) version upgrading 9

1-2-2. PC version DCC installation/version upgrading 10

1-2-3. PC version DCC uninstalling 10

1-3. Activation and termination of DCC 11

1-3-1. Activation and termination of DCC (touch panel) 11

1-3-2. Activation and termination of PC version DCC 12

1-4. Setting a connection destination 13

2. Setting Up Your Projector 15

2-1. Following Setup 15

2-2. Adjusting Colors 16

2-2-1. Changing the Control Mode to Installation Mode 16

2-2-2. Creating "MCGD" Data 17

2-2-3. Projecting Red, Green, Blue, and White Colors 20

2-3. Adjusting the Lens Setup and Lamp Brightness 21

2-3-1. Adjusting the Lens 21

2-3-2. Adjusting the Brightness of the Lamp 22

2-4. Registering Titles 23

2-4-1. Information on Default Titles 23

2-4-2. Overview of Titles 28

2-4-3. Displaying TITLE Screen 29

2-4-4. Creating New Titles 30

2-4-5. Editing a Title 34

2-4-6. Deleting a Title 35

2-4-7. Registering a Test Pattern for a Title 35

2-5. Creating a PCF File 37

2-5-1. Overview of PCF File 37

2-5-2. Creating a New PCF File 37

2-6. Creating a SCREEN File 42

2-6-1. Overview of SCREEN files 42

2-6-2. Creating a New SCREEN File 42

3. Menu Functions [For projector operation] 46

3-1. Project Operation Menu List....47

3-1-1. List of Menu Items of the Tool bar....48

3-2. START Screen....49

3-2-1. Changing the menu mode....50

3-3. MAIN Screen....51

3-3-1. Configuring the Preset Buttons....55

3-4. LENS Screen....57

3-5. LAMP Screen....59

3-5-1. LAMP Screen (Adjust)....59

3-5-2. LAMP Screen (Information)....61

3-5-3. LAMP Screen (Setup)....62

3-6. STATUS Screen....64

3-7. TITLE Screen....65

3-7-1. Title Advanced Screen....68

3-7-2. PCF Setting Screen....69

3-7-3. SCREEN Setting Screen....72

3-7-4. 3D Controls Screen....73

3-8. INFO Screen....74

3-8-1. INFO Screen (Status)....75

3-8-2. INFO Screen (Status2)....78

3-8-3. INFO Screen (Log)....79

3-8-4. INFO Screen (SIB)....89

3-9. SETUP Screen....91

3-9-1. SETUP Screen (Setup)....91

3-9-2. SETUP Screen (Installation)....95

3-9-3. SETUP Screen (Color Setting)....98

3-9-4. SETUP Screen (MMS Setting)....99

3-9-5. SETUP Screen (Option Slot)....100

3-10. LAN Screen....101

3-10-1. LAN Screen (IP Address)....102

3-10-2. LAN Screen (Mail)....103

3-10-3. LAN Screen (SNMP)....104

3-11. UPDATE Screen....106

3-11-1. Backing Up and Restoring Setting Information....108

3-11-2. Comparing Cinema Files....109

3-11-3. Setting the Setup Date of the Projector....110

3-11-4. Checking Log Files Using the Information Viewer....111

3-11-5. Checking the Version Information....113

3-11-6. Updating the Firmware....115

3-11-7. Macro File Tools 116

4. Menu Functions [For MMS Operation] .. 117

4-1. Basic Screen 117
4-1-1. Menu Bar Explanation 118
4-1-2. Status Bar Explanation 118
4-2. Table of adjustment menus 119
4-2-1. Using the Service Personnel Menu (Mode switching) 121
4-3. START Screen 122
4-4. SOURCE Screen 123
4-4-1. Input Terminal 124
4-4-2. Test Pattern [Support of upgrading is planned] 124
4-4-3. Entry List 125
4-4-4. Default List [Support of upgrading is planned] 134
4-5. ADJUST Screen 135
4-5-1. Picture 136
4-5-2. Input Settings 137
4-5-3. Resize 142
4-5-4. Options 146
4-6. SETUP Screen 149
4-7. LAN Screen 153
4-7-1. IP Address 154
4-7-2. Network Type 155
4-7-3. WEP 156
4-7-4. Mail 157
4-7-5. DHCP 158
4-7-6. Status 159
4-8. INFO Screen 160
4-8-1. Source Info. 160
4-8-2. MMS Info. 161

5. Appendix 162

5-1. Trouble Shooting 162
5-2. Index 163

1.

Overview

1-1. Overview of DCC

DCC is the software that is pre-installed in the touch panel. By using DCC, you can operate NC Series projectors and MM2000/MM2000B(*).
The PC version DCC that can be operated in the same way as DCC without a touch panel is also available. By installing PC version DCC in the personal computer that is connected to a projector in the LAN connection, DCC can be operated from the personal computer also.

(*) By using PC version DCC, you can operate MM2000/MM2000B. MM2000/MM2000B cannot be connected from the touch panel DCC

1-1-1. Operating environment of PC version DCC

This software can be used with the personal computer that fills the following environments.

Supported OS	Windows Vista, Windows XP, Windows 2003 Server, Windows 2000 Professional
Supported hardware	IBM PC/AT compatible personal computers
CPU	Pentium 300 MHz or higher required
Memory	128 MB or more
Network environment	TCP/IP-compatible LAN environment required

1-2. DCC installation/version upgrading

The installation/version upgrading procedures differ between the touch panel DCC and the PC version DCC.

1-2-1. DCC (touch panel) version upgrading

DCC is pre-installed in the touch panel. This section describes the DCC version upgrading procedure.

[1] Save the EXE file of the touch panel version DCC that was formally released in the USB memory.

[2] Set the USB memory in the touch panel after activating the DCC.

[3] Set the DCC to a service mode.

[4] Press the "×" button on the top-right corner of the START screen.

[5] Terminate the DCC by pressing the "Yes" or "No" button in the Save Execute Log dialog.

[6] Click (tap) the [My Computer] icon on the desktop screen.

[7] Open the "USBDisk" directory and copy the EXE file that was saved in procedure [1].

[8] Paste the EXE file that was copied in the directory displayed by selecting "Disk"-"AppData".

[9] Remove the USB memory.

1-2-2. PC version DCC installation/version upgrading

This section describes the installation procedure of PC version DCC. Use the same procedure as for installation for version upgrading (installation by overwriting).

Preparatory operation:

- Boot up your PC's Windows.
- If you have already started Windows, quit all running application programs.
  If you do not quit all running programs before installing the DCC Software, you risk having unsuccessful installation.

> You must have "Administrators" privileges to install and uninstall the PC Control Software in Windows 2000, and "Computer Administrators" privileges to do the same in Windows XP.

[1] Save the EXE file of the PC version DCC that was released formally in the local drive of the personal computer.

[2] Double-click the EXE file that was saved.

[3] Install the PC version DCC (version upgrading) according to the instruction of the installer.

1-2-3. PC version DCC uninstalling

Uninstall the Software from the menu shown below.

- For Windows XP
  [Start] -> [Control Panel] -> [Add or Delete Program]
- For Windows 2000
  [Start] -> [Control Panel] -> [Add or Delete Applications]

1-3. Activation and termination of DCC

The activation method and termination method differ between the touch panel DCC and the PC version DCC.

- Activation and termination of the touch panel DCC :See 1-3-1 section (this page).
- Activation and termination of the PC version DCC :See 1-3-2 section (next page).

When the DCC is initially activated first, the "Language Select" screen appears. In this case, select the display language.
In the following cases, the language selection screen is not displayed since Chinese display is not supported.
- Your touch panel is the NC-TP6401.
- You use the PC version DCC and the Chinese font is not installed in your personal computer.

1-3-1. Activation and termination of DCC (touch panel)

The touch panel power works together with the projector. When you turn on the main power to your projector, it enters standby mode and the software automatically starts. Turning off the main power to the projector causes the software to automatically exit.

1-3-2. Activation and termination of PC version DCC

Activate the PC version DCC.

The connection destination of the PC version DCC must be specified in advance on the Communication Settings screen that is displayed at activation.

[1] From the [Start] menu of Windows, click [All the programs]→[Projector User Supportware]→[Digital Cinema Communicator(DCC)] in that order.

The Communication Settings screen is displayed.

For the details of the Communication Settings screen, see "3-4. Setting a connection destination" (page 38).

[2] Select a connection destination device (projector or MMS) from the Target select field.

[3] Select an IP address or a host name.

[4] After setting the necessary items, click the [OK] button.

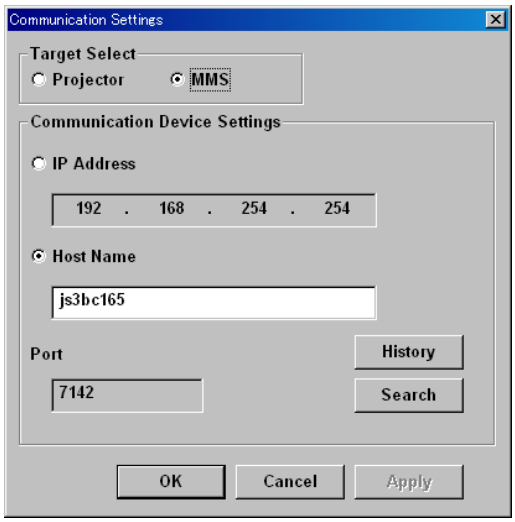
Exiting the PC version DCC.

[1] Click "File".

[1] Click "Exit".

1-4. Setting a connection destination

When the PC version DCC is activated, the Communication Settings screen is displayed. Set a connection destination on this screen. This screen can be displayed also by selecting [Communication Settings] from the Setup menu of the tool bar.



Target Select		Select a device of the connection destination. Select Projector or MMS.
Communication Device Settings		Enter the network setting of the connection destination device. Select the IP address or the host name and enter the necessary items.
	IP Address	Enter the IP address. ● Connect to Projector: Enter the IP address of the projector. Value set at factory shipment: 192.168.10.10 ● Connect to MM2000B: Enter the IP address of the built-in projector. Value set at factory shipment: 192.168.10.10 ● Connect to MM2000: Enter the IP address of MM2000. Value set at factory shipment: 192.168.10.20
	Host Name	Enter a host name of the device of the connection destination. Value set at factory shipment: NC-Series
	Port	Normally, no change is necessary. Value: 7142
	History button	Displays the History screen that shows the connection destinations that have been connected in the past.
	Search button	Displays the Search screen that searches connection destinations on the same network.

History screen

When the "History" button is pressed on the Communication Settings screen, the History screen is displayed. This screen displays the history of connection destinations. A connection destination can be selected from the history.

"Delete" button	Deletes the history selected in the list.
"All Delete" button	Deletes the entire history.
"OK" button	Enter the connection destination of the selected history in the setting screen.
"Cancel" button	Returns to the Communication Settings without performing any processing.

Search List screen

When the "Search" button is pressed on the Communication Settings screen, the Search List screen is displayed. Use this screen to search a connection device on the same network.

"OK" button	Enter the connection destination of the selected device in the setting screen.
"Cancel" button	Returns to the Communication Settings without performing any processing.

2.

Setting Up the Projector

This chapter describes how to initialize the projector using the touch panel

2-1. Following Setup

- **STEP1**
  Adjusting Colors
- **STEP2**
  Creating "MCGD" Data
- **STEP3**
  Adjusting the color tone of the test pattern
- **STEP4**
  Adjusting the Lens and the Brightness of the Lamp
- **STEP5**
  Creating New Titles

2-2. Adjusting Colors

This corrects the chromaticity of the colors of the image projected on the screen by means of a color meter and performs the setting of target colors (TCGD) during test pattern projections. You can also project an image in target colors (TCGD file) with red, green, blue and white colors selected.

The projector measures the value of each native color (color before corrections) and saves it in a file (MCGD) to allow the user to faithfully reproduce the specified color (i.e., target color or TCGD).

Initial Preparation

- Use a colorimeter to make preparations so that the value of the screen center can be measured.
- Display the "Cross Hatch" test pattern to adjust the screen center.
- Set the brightness of the room to projection conditions (i.e., turn off all illumination).
- Use of a PR-650 manufactured by PHOTO RESEARCH is recommended in measurement of the chromaticity level.
- Adjust the alignment of the valve prior to measuring the MCGD.
- Wait at least 15 minutes for the projector to warm up and the brightness becomes constant before adjusting alignments.

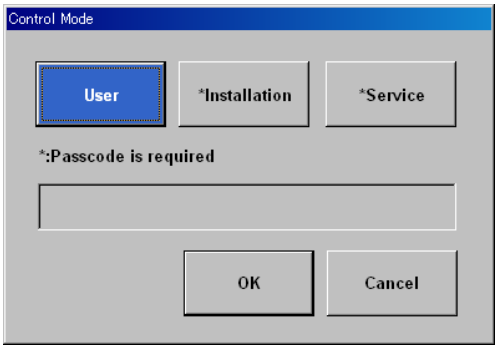
2-2-1. Changing the Control Mode to Installation Mode

To perform advanced adjustments, you need to select the Installation (or Service) mode. Color adjustment is not available in the User mode.

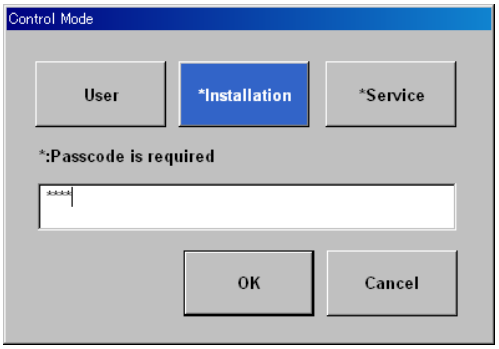
[1] Press the "MODE" button from the "START" menu screen.

The "Control Mode" screen appears.

[2] Press the “Installation” button.

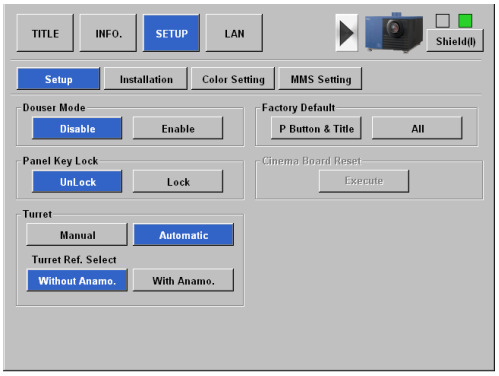


[3] Enter your passcode and press the “OK” button.

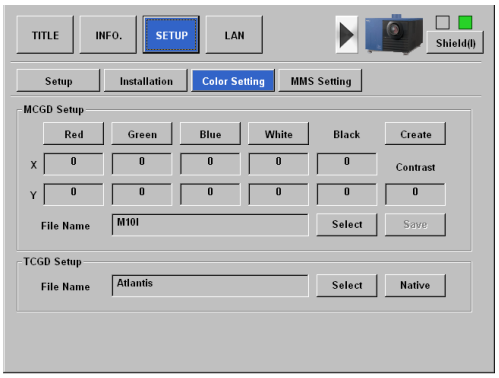


2-2-2. Creating "MCGD" Data

[1] Press the “SETUP” button on the menu bar.

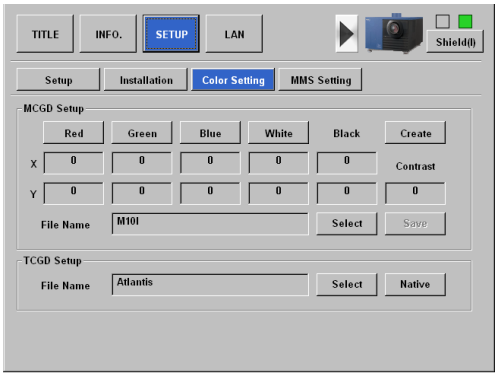


[2] Press the "Color Setting" button.



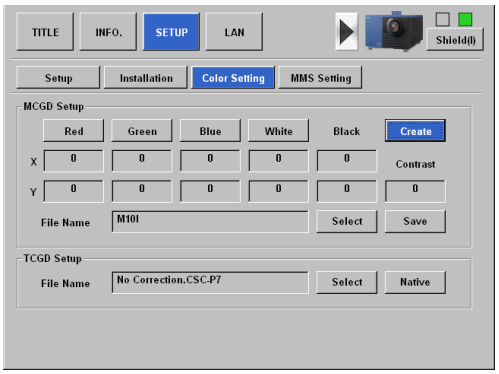
[3] Press the “Create” button in the “MCGD Setup”.

The "Red", "Green", "Blue", and "White" buttons within MCGD Setup will become valid.

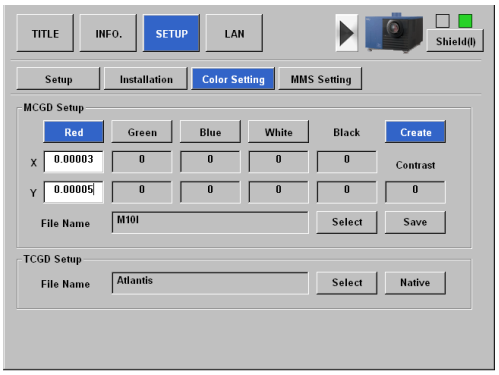


[4] Press “Red” button.

There will be projection to the screen in the native color (red) of the projector.

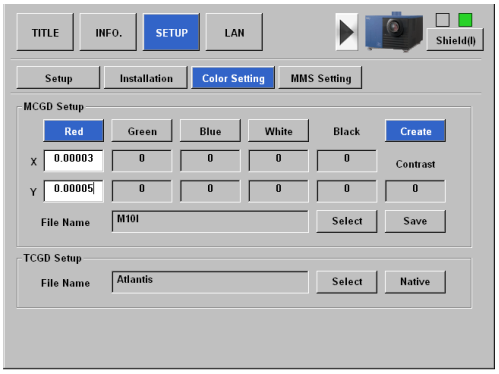


[5] Measure the chromaticity [x, y] of the screen center, then enter the measured value into the [x] section and the [y] section located under [Red].

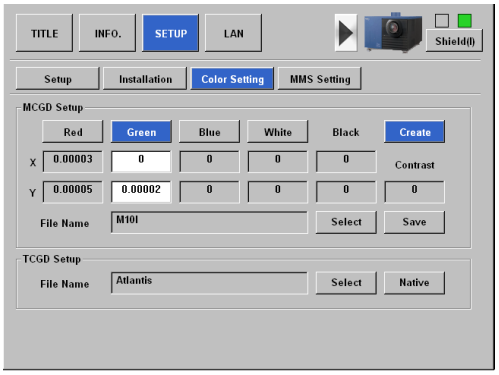


[6] Press “Green” button.

There will be projection to the screen in the native color (Green) of the projector.

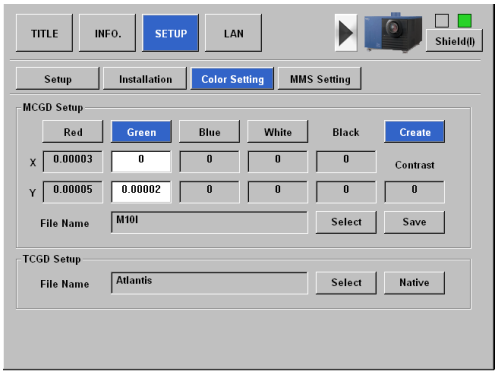


[7] Measure the chromaticity [x, y] of the screen center, then enter the measured value into the [x] section and the [y] section located under [Green].

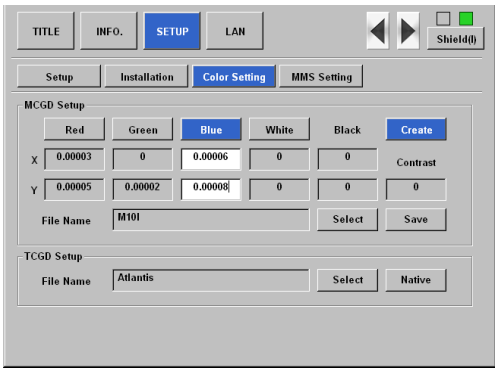


[8] Press "Blue" button.

There will be projection to the screen in the native color (Blue) of the projector.

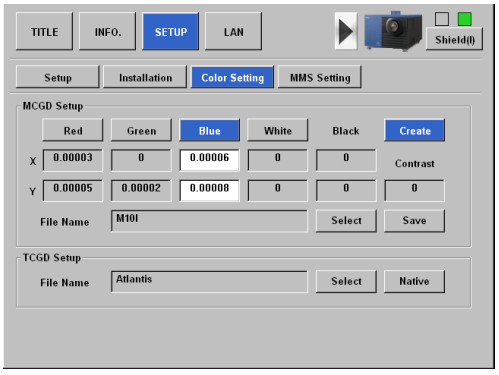


[9] Measure the chromaticity [x, y] of the screen center, then enter the measured value into the [x] section and the [y] section located under [Blue].

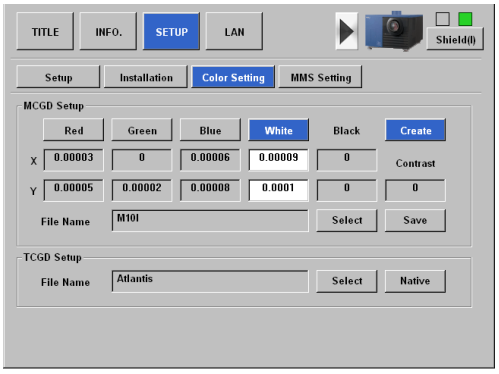


[10] Press "White" button.

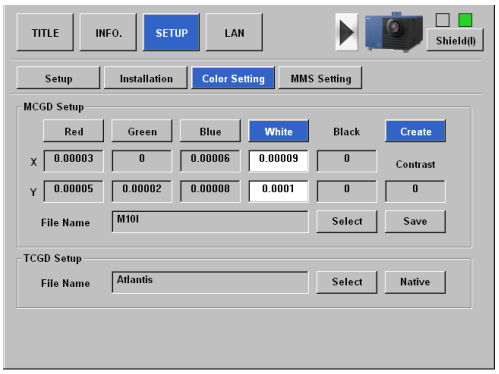
There will be projection to the screen in the native color (White) of the projector.



[11] Measure the chromaticity [x, y] of the screen center, then enter the measured value into the [x] section and the [y] section located under [White].



[12] Save the settings.



2-2-3. Projecting Red, Green, Blue, and White Colors

By pressing the "Red", "Green", "Blue", and "White" buttons in the “MCGD Setup”, you can project an image in colors, respectively.
To select a target color (TCGD file), press the “SELECT” button in the “TCGD Setup”.
You can also select a native color of the projector with the “Native” button.

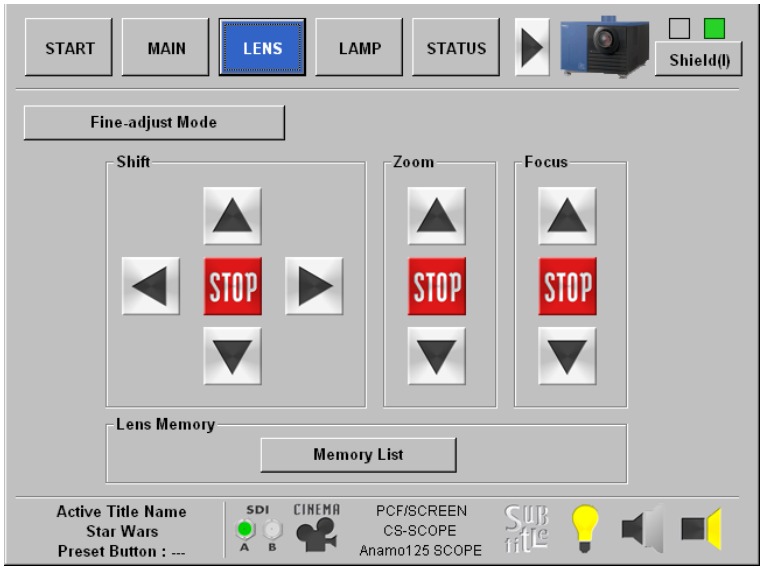
2-3. Adjusting the Lens Setup and Lamp Brightness

You can register adjusted lens settings (lens memory function) or adjusted brightness of the lamp (lamp memory function). Assign registered settings to titles to call them up later. For information on the lens and lamp memory functions, refer to the NC-TP6402/NC-TP6401 Touch Panel Controller User's Guide.

2-3-1. Adjusting the Lens

The projector zoom, focus and projected screen (lens shift) are adjusted with the "LENS" screen for information on how to adjust them, refer to the NC-TP6402/NC-TP6401 Touch Panel Controller User's Manual.

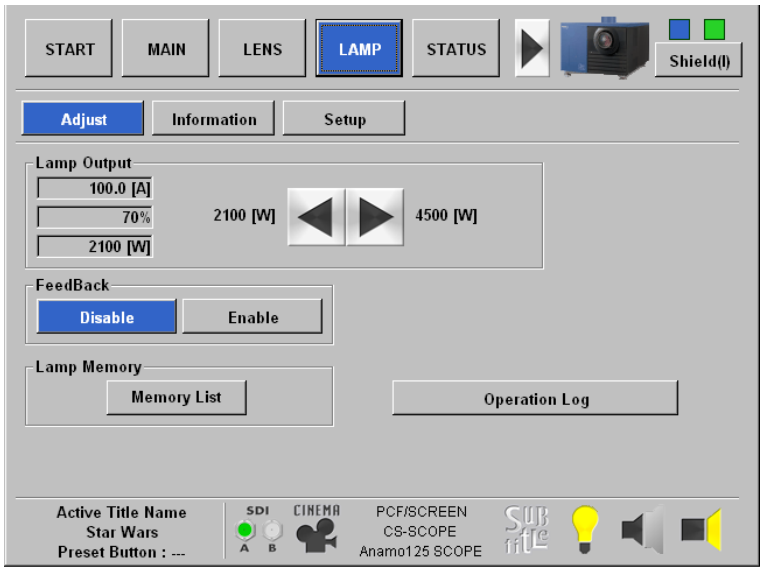
When the projector main unit is used in the NC1600 Series, the following functions cannot be used.
- Copy of the Lens Memory function ([Copy] button on the Lens Memory screen)
- Paste of the Lens Memory function ([Paste] button on the Lens Memory screen)
- With Focus of the Lens Memory function (With Focus check box of the Lens Memory Setup field of the Lens Memory screen)



2-3-2. Adjusting the Brightness of the Lamp

The brightness of the lamp is adjusted using the LAMP screen. For information on how to adjust it, refer to the NC-TP6402/NC-TP6401 Touch Panel Controller User's Guide.
Setting FeedBack to "Enable" allows the set brightness to be maintained automatically.
In the case of movies, adjust the brightness of your DLP Cinema Projector to approximately 12 or 14 (ftl).

The set value will be invalidated after replacement of the lamp, therefore, you must set lamp brightness once again.
If you set 100% of the lamp output, automatic brightness adjustment (FeedBack mode) will be disabled.



2-4. Registering Titles

2-4-1. Information on Default Titles

The data listed below have been cataloged in your projector before shipping from our factory. When projecting an image source covered by these data, you do not need to change the settings of your projector. When projecting an image source other than those mentioned above (data listed below), follow the procedures given in Section, "2-4-4. Creating New Titles" (Page. 30) Title Creation and Editing" and subsequent sections.

List of Default Titles (NC2000c)

Macro Key No.	TITLE	Input	FILES		source		TCGD	Anamor-phic Lens
			PCF	SCREEN	active	aspect		
1	CS-SCOPE1920	SDI-A	CS-SCOPE 1920x1080	Anamo1.25 SCOPE	1920x1080	2.35	P7v2 theatre	1.25
2	VV-FLAT 1920	SDI-B	VV-FLAT 1920x1080	DC2K VISTA	1920x1080	1.85	P7v2 theatre	none
3	HDTV	SDI-A	HDTV 1920x1080	DC2K HDTV	1920x1080	0	Rec 709	none
4	SDI-DUAL-RGB	SDI-A,B	SDI DUAL RGB 1920x1080	2048x1080 No Crop	1920x1080	0	P7v2 theatre	none
5	DVI-A	DVI-A	DVI 2048x1080	DC2K DVI	2048x1080	0	P7v2 theatre	none
6	DVI-B	DVI-B	DVI 2048x1080	DC2K DVI	2048x1080	0	P7v2 theatre	none
7	DVI-TWIN	DVI-A,B	DVI 2048x1080	DC2K DVI	2048x1080	0	P7v2 theatre	none

NOTES:

NOTES:

List of Default SCREENs

SCREEN FILE NAME	anamorphic factor	screen presentation
Anamo125 SCOPE.SCREEN	1.25	2048x1080
DC2K SCOPE.SCREEN	1	2048x1080
DC2K DUAL.SCREEN	1	2048x1080
DC2K DVI.SCREEN	1	2048x1080
DC2K HDTV AREA.SCREEN	1	1920x1080
DC2K HDTV.SCREEN	1	2048x1080
DC2K SXGA AREA.SCREEN	1	1280x1024
DC2K VISTA AREA.SCREEN	1	1998x1080
DC2K VISTA.SCREEN	1	2048x1080
1280x1024 No Crop.SCREEN	1	1280x1024
1400x1050 No Crop.SCREEN	1	1400x1050
2048x1080 No Crop.SCREEN	1	2048x1080

List of Default SOURCEs

SOURCE FILE NAME	source	
	active	aspect
1280x1024 SCOPE.SOURCE	1280x1024	2.35
1920x817 SCOPE.SOURCE	1920x817	0
1920x1024 SCOPE.SOURCE	1920x1024	2.35
1920x1080 SCOPE.SOURCE	1920x1080	2.35
2048x1080 SCOPE.SOURCE	2048x1080	2.35
1280x1024 VISTA.SOURCE	1280x1024	1.85
1920x1024 VISTA.SOURCE	1920x1024	1.85
1920x1038 VISTA.SOURCE	1920x1038	0
1920x1080 VISTA.SOURCE	1920x1080	1.85
2048x1080 VISTA.SOURCE	2048x1080	1.85
1280x1024 HDTV.SOURCE	1280x1024	1.778
1920x1024 HDTV.SOURCE	1920x1024	1.778
1920x1080 HDTV.SOURCE	1920x1080	0
2048x1080 HDTV.SOURCE	2048x1080	1.778

List of Default SOURCEs

SOURCE FILE NAME	source	
	active	aspect
1280x1024 1778	1280x1024	1.778
1280x1024 185	1280x1024	1.85
1280x1024 235	1280x1024	2.35
1280x1024 Square Pixels	1280x1024	1.25
1800x1080 1667	1800x1080	1.667
1920x1038 185	1920x1038	1.85
1920x1080 1778	1920x1080	1.778
1920x803 239	1920x803	2.39
1920x817 235	1920x817	2.35
2048x1024 Square Pixels	2048x1024	2
2048x1080 Square Pixels	2048x1080	1.896
2048x857 239	2048x857	2.39
2048x871 235	2048x871	2.35
Auto Square Pixels	0x0	0

2-4-2. Overview of Titles

You can preset the followings for each title.

- Select Signal (selection of input signal and signal type)
- Lens memory
- Lamp memory
- Setup of anamorphic lens motorized turret
- PCF files
- MCGD files
- SCREEN files

Calling up a preset title facilitates switching of input signals. You can also assign titles to the Macro keys on the projector's control panel and call them up directly using these keys.

2-4-3. Displaying TITLE Screen

To create or edit a title, you need to change the Control Mode to Installation (or Service) mode. Titles cannot be created or edited in the User mode.

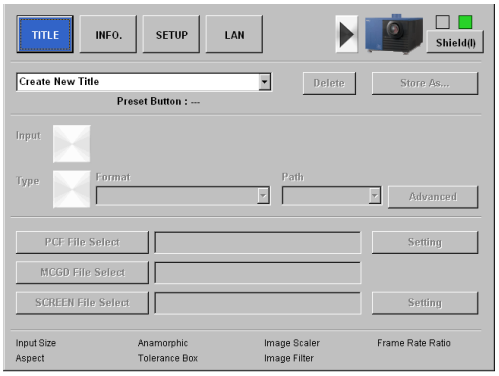
[1] If the projector is in User mode, change it to the Installation mode.

For the procedure to change the mode, refer to "2-2-1. Changing the Control Mode to Installation Mode" (page 16).

[2] Press the "TITLE" button on the menu bar.

The "TITLE" screen will appears.

If the "TITLE" button is not visible, press the "▶" button on the menu bar and then scroll the menu bar.



2-4-4. Creating New Titles

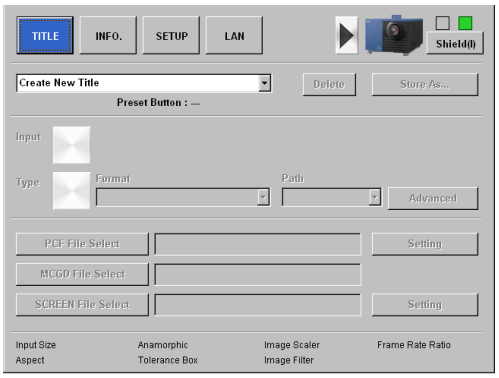
This section describes how to create a new title that is associated with a video signal input. For the steps for registering a test pattern for a title, see 2-4-7, Registering a Test Pattern for a Title (Page 35). For the steps for editing a registered title, see "2-4-5, Editing a Title" (Page 34).

Preparation:
Open the "TITLE" screen. For details, see 2-4-3, Displaying TITLE Screen (Page 29).

[1] Set the Input icon.

Select "Create New Title" from the pull-down menu to display the "Input Select" screen.

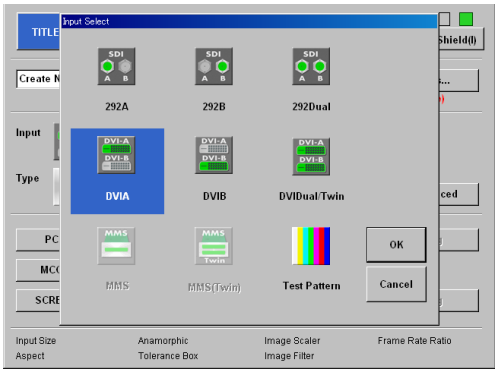
To create a title by editing an already registered title, select the desired title and press the Input icon to display the "Input Select" screen.



[2] Select the desired input signal and then press the "OK" button.

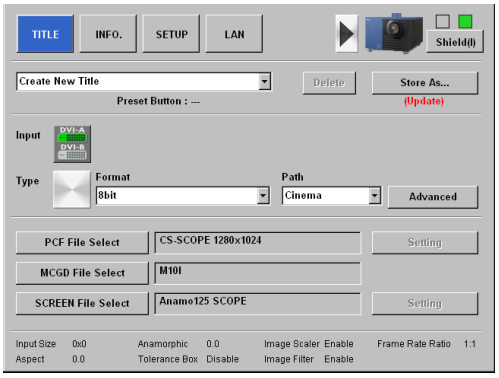
The selected icon is displayed as a blue cursor. Press the "OK" button to return to the "TITLE" screen.

The "Type Select" screen appears.



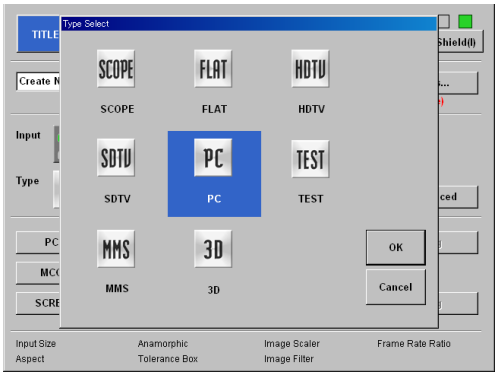
[3] Press the "Type" icon.

The "Type Select" screen appears.



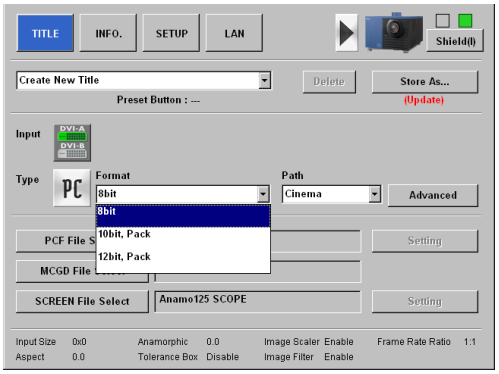
[4] Select the type of input signal and then press the "OK" button.

The selected icon is displayed as a blue cursor. Press the "OK" button to return to the "TITLE" screen.



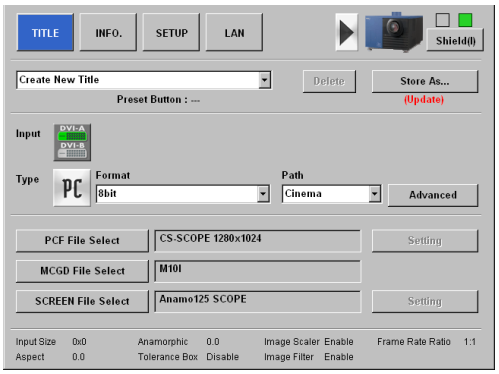
[5] Select the Format, Path.

From the pull-down list, selects the format of the input signal and the path (Cinema/Non-Cinema).



[6] Press the "PCF File Select" button.

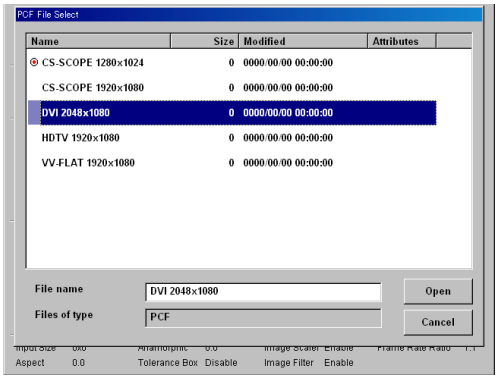
The "PCF File Select" screen appears.



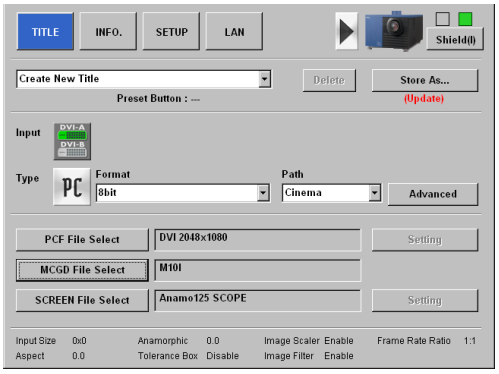
[7] Select a PCF file that is associated with the signal and press the "Open" button.

Press the "Open" button to return to the "TITLE" screen.

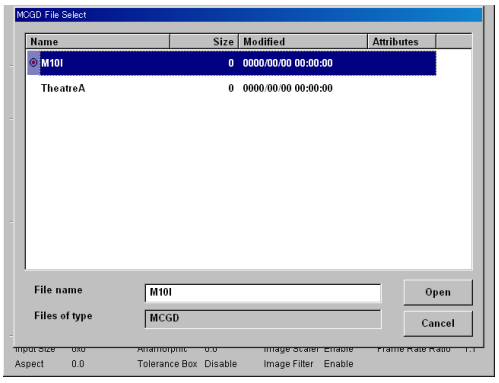
To create a new PCF file, refer to "2-5. Creating a PCF File" (Page 37).



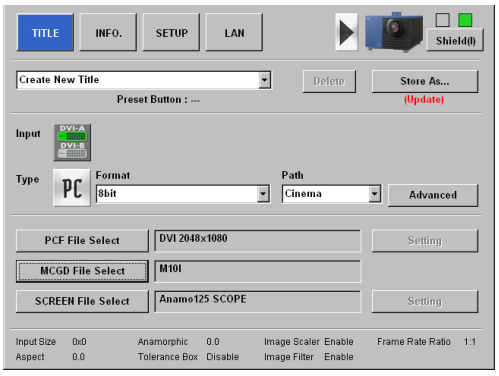
[8] Press the "MCGD File Select" button.



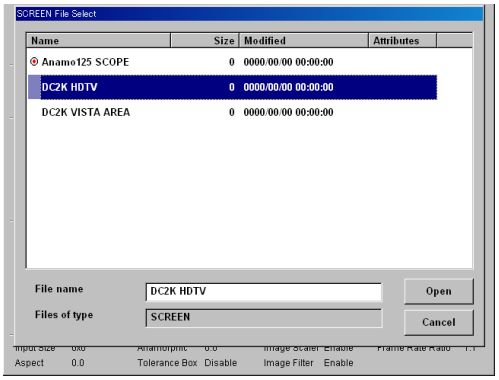
[9] Select an MCGD file that is associated with the signal and press the "Open" button.



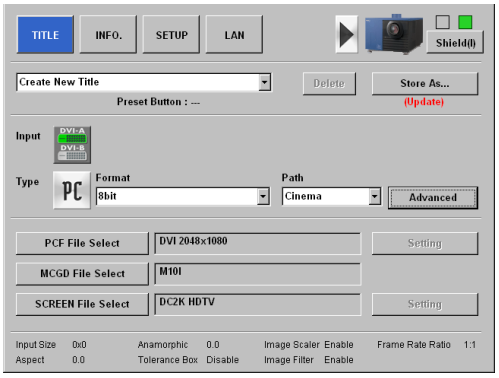
[10] Press the "SCREEN File Select" button.



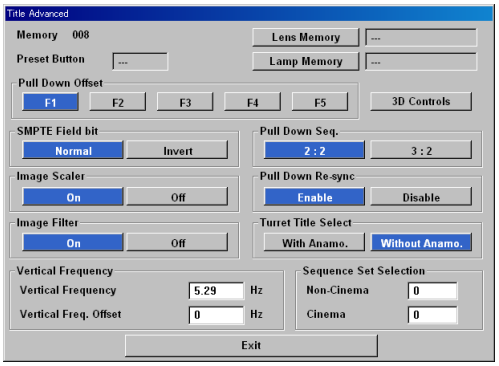
[11] Select a SCREEN file that is associated with the signal and press the "Open" button.



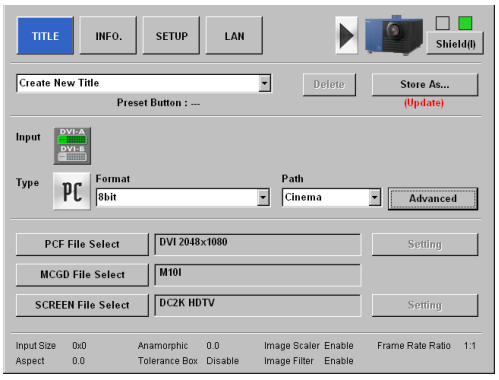
[12] Press the "Advanced" button.



[13] Configure the advanced settings depending on the input signal and press the "Exit" button.



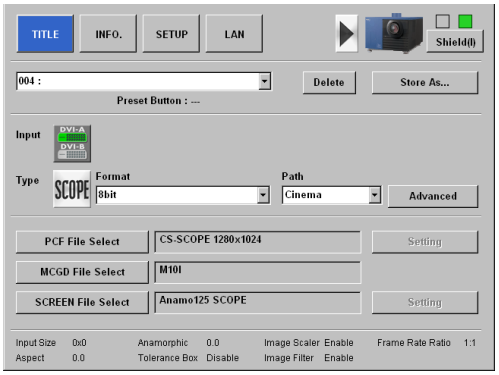
[14] Press the "Store As ..." button.



2-4-5. Editing a Title

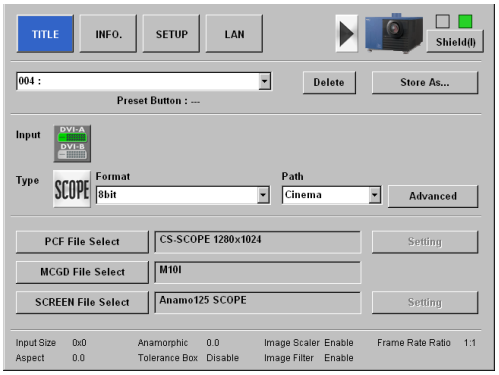
Preparation:
Open the "TITLE" screen. For details, see 2-4-3, Displaying TITLE Screen (Page 29).

[1] From the pull-down menu, select a desired title.



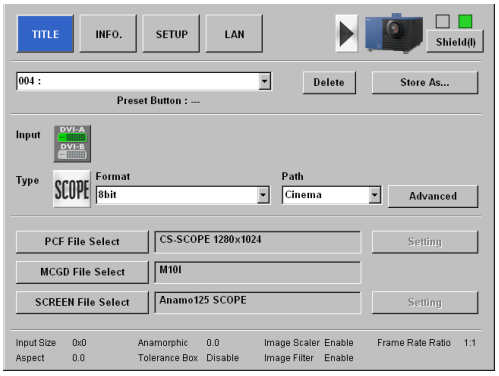
[2] Edit the settings.

[3] Press the "Store As ..." button.

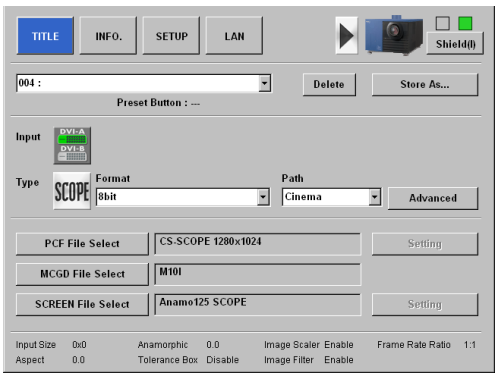


2-4-6. Deleting a Title

[1] From the pull-down menu, select a desired title.



[2] Press the "Delete" button.

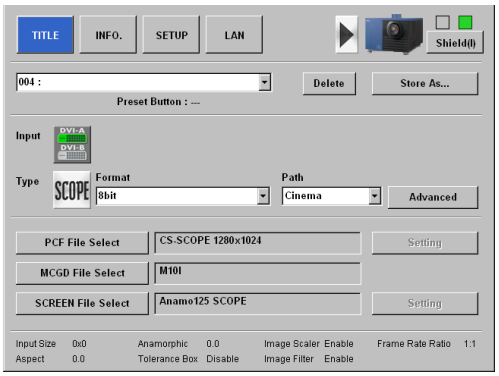


2-4-7. Registering a Test Pattern for a Title

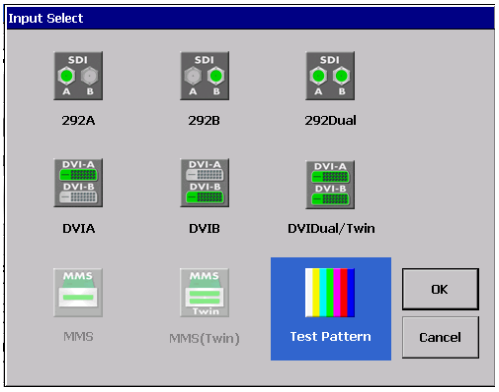
Preparation:

Open the "TITLE" screen. For details, see 2-4-3, Displaying TITLE Screen (Page 29).

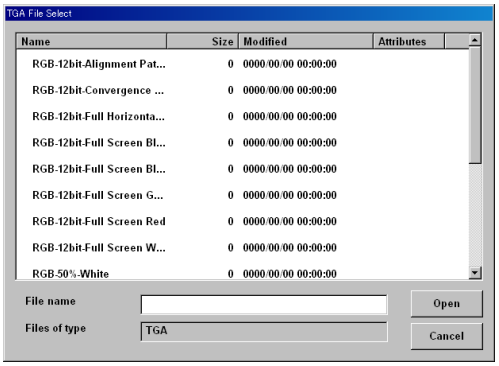
[1] Press the "Input" icon.



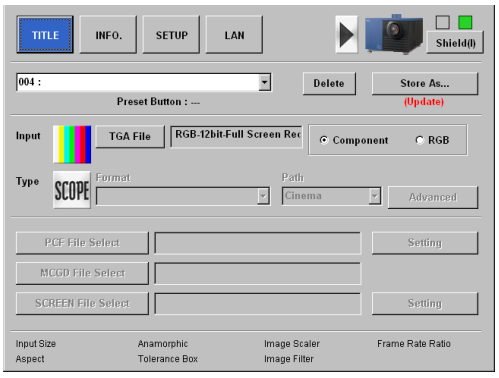
[2] Select the "Test Pattern" icon and press the "OK" button.



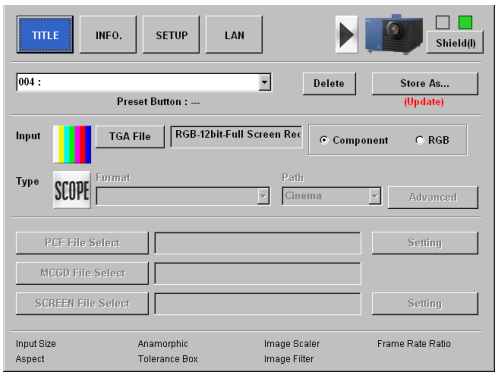
[3] Select the test pattern (TGA File) you want to register and press the "Open" button.



[4] Select the type of the test pattern signal.



[5] Press the "Store As ..." button.



2-5. Creating a PCF File

2-5-1. Overview of PCF File

The PCF file (Projector Configuration File) includes the items mentioned below, which are the setting information of the projector.

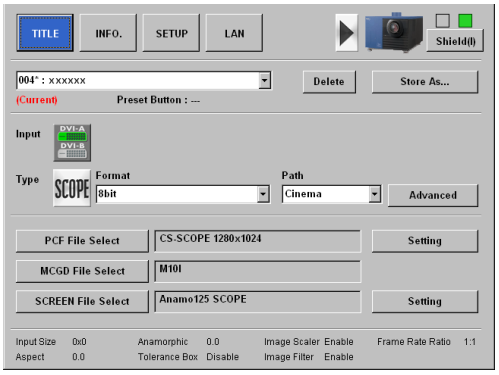
- Input signal information (Resolution, aspect ratio, etc.)
- Color Space information
- Gamma information
- Native color information (MCGD)
- Target color information (TCGD)

To create a PCF file, use the "Setting" button on the "TITLE" screen. One creation method is to call an existing file, make changes, and then save the file, and another method is to create a new file; however, the basic operations are the same and the method of creating a new file will be described here

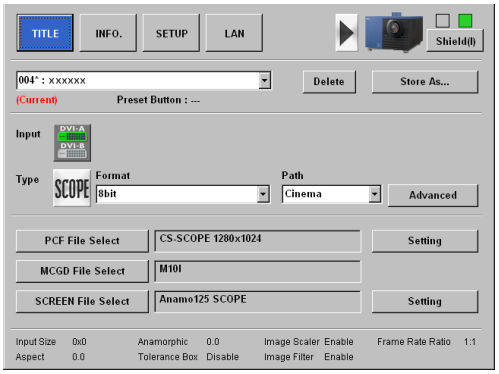
2-5-2. Creating a New PCF File

Preparation:
Open the "TITLE" screen. For details, see 2-4-3., Displaying TITLE Screen (Page 29).

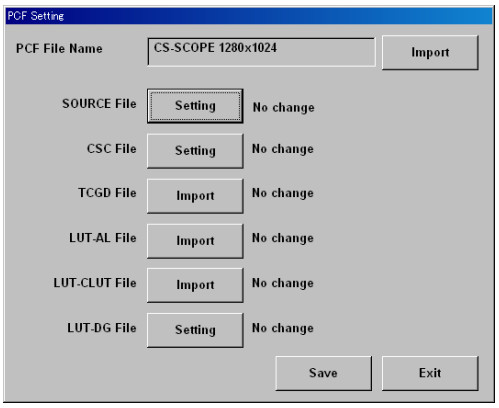
[1] From the pull-down menu, select a signal.



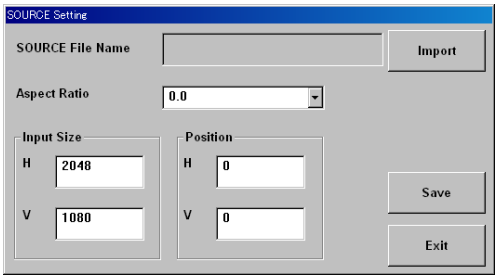
[2] Press the "Setting" button in the "PCF File Select"



[3] Press the "Setting" button in the SOURCE File.



[4] Enter the Aspect Ratio and Input Size, then press "EXIT" button.



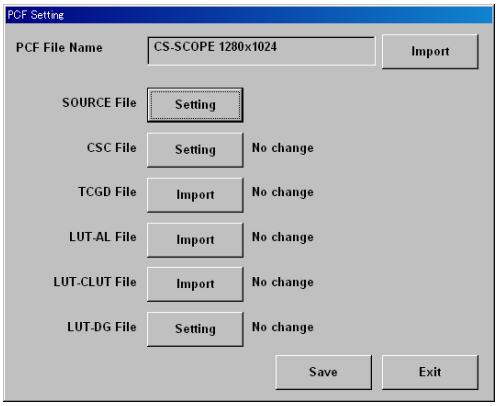
Example of setting SOURCE File

Conditions:

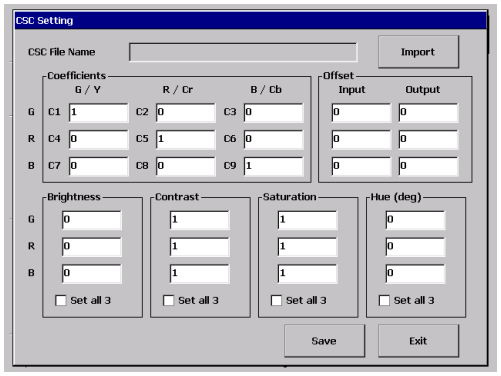
- Screen sizes :Project the screen size in Vista (Aspect ratio is 1:1.85)
- Input signal format: HD-SDI 1920x1080@24psF

Squeeze signals	(Signals that have been compressed at the control side 1920 to 1280 in the horizontal direction and 1080 to 1024 in the vertical direction) Aspect Ratio :1.85 Input Size :1280x1024
For signals other than squeeze signals	Aspect Ratio :1.85 Input Size :1920x1080

[1] Press the “Setting” button in the “CSC File”.



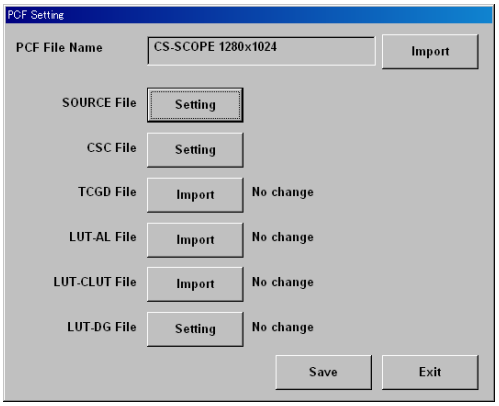
[2] Press the "Import" button and select a color space file that corresponds to the input signal.



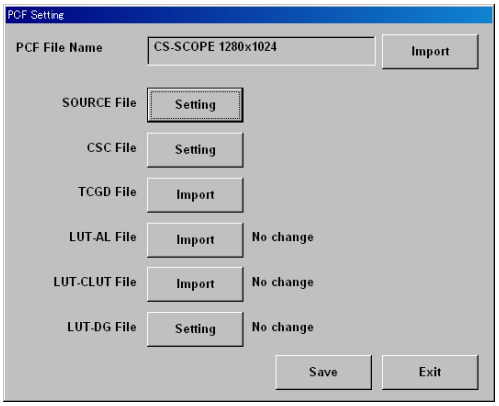
Example of selecting a CSC file:

For DVI connector	-RGB input: "Unity RGB.CSC" (same as "Mk7 Unity RGB.CSC")
For HD-SDI connector	- Component input:10-bit 64-940.CSC" "YCbCr 240M.CSC" (same as "Mk7 YCbCr 240M.CSC") "YCbCr 709.CSC" (same as "Mk7 YCbCr 709.CSC") - DUAL LINK RGB input: "RGB 10-bit 64-940.CSC"

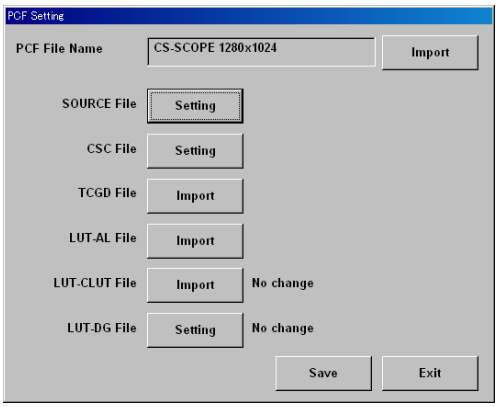
[1] Press the "Import" button in "TCGD File" to select the TCGD file.



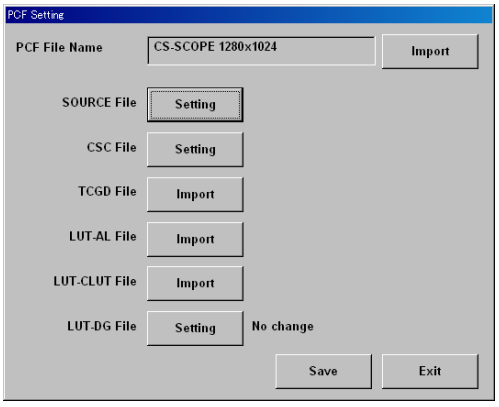
[2] Press the "Import" button in "LUT-AL File" to select the LUT-AL file.



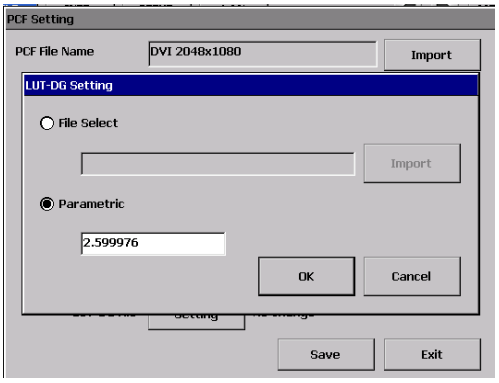
[3] Press the "Import" button in "LUT-CLUT File" to select the LUT-CLUT file.



[4] Press the "Setting" button in "LUT-DG File".



[5] Set the LUT-DG file and then press the "OK" button.

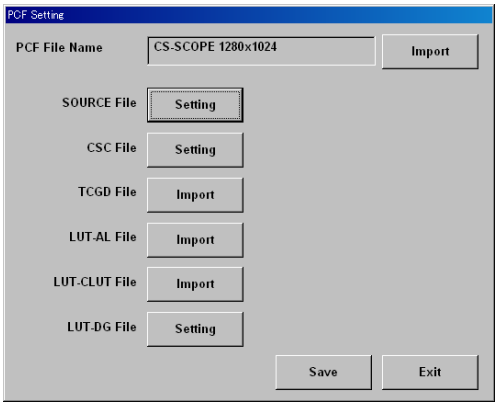


Example of setting LUT-DG File

Movies	"Gamma 2.6.LUT-DG" (equivalent to "Mk7 PL2.6.LUT-DG)
PC and Other Input	"Graphics_Enhanced.LUT-DG
When using Parametric	Select "Parametric" to enter the degamma value.

[1] Press the "Save" button.

To overwrite an existing file, check that the file being edited is selected before pressing the "OK" button.



2-6. Creating a SCREEN File

2-6-1. Overview of SCREEN files

SCREEN files includes the items mentioned below, which are the setting information of the projector.

- display area information
- Anamorphic Lens information
- Crop information

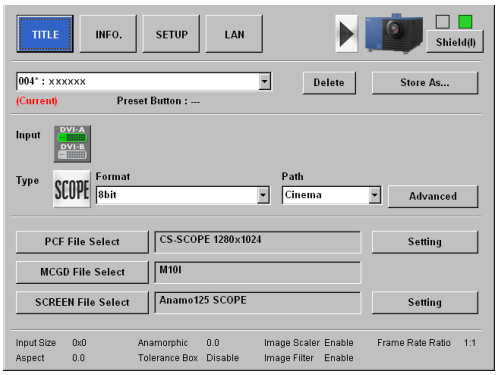
To create a SCREEN file, use the "Setting" button on the "TITLE" screen. One creation method is to call an existing file, make changes, and then save the file, and another method is to create a new file; however, the basic operations are the same and the method of creating a new file will be described here.
For information on assigning a PCF file to a title, see 2-4-4, “Creating New Titles” (Page 30).

2-6-2. Creating a New SCREEN File

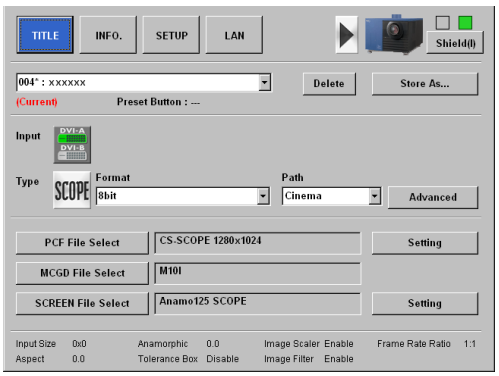
Preparation:
Open the "TITLE" screen.

[1] From the pull-down menu, select a signal.

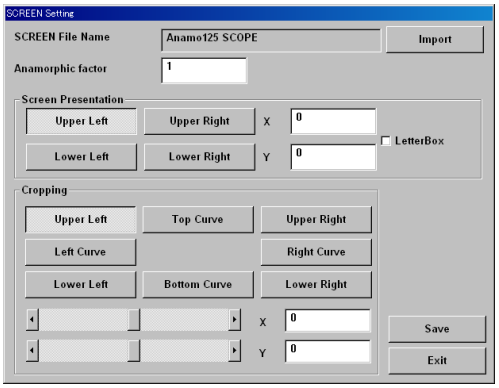
To create a SCREEN file, the current title (the currently selected signal) needs to be selected.



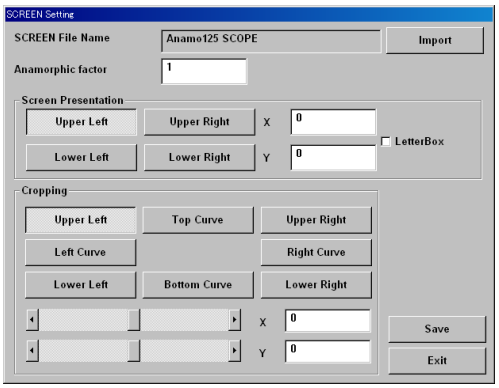
[2] Press the "Setting" button on the right-hand side of "SCREEN File Select".



[3] Input the magnification of Anamorphic Lens in the "Anamorphic factor"



[4] Enter information on the pixel you use in "Screen Presentation".

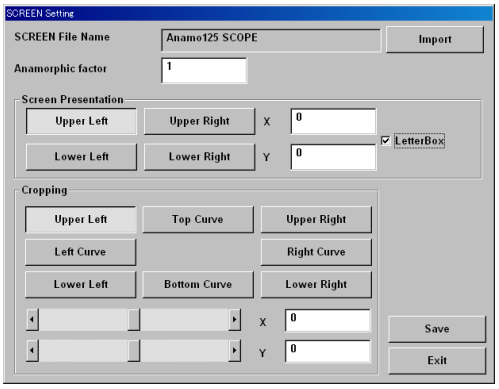


SCREEN file

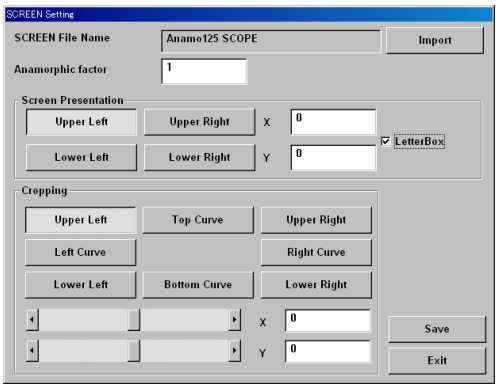
This sets the horizontal display area to be used when the primary lens zooming feature does not meet the required projection in a fixed wide-screen format.

VISTA Screen	Call the DC2K VISTA AREA.SCREEN file.
HDTV Screen	Call the DC2K HDTV AREA.SCREEN file.

[1] Select the "Letterbox" checkbox.



[2] "Cropping" is used when the projected image is too large to be displayed in the screen.



"Cropping"

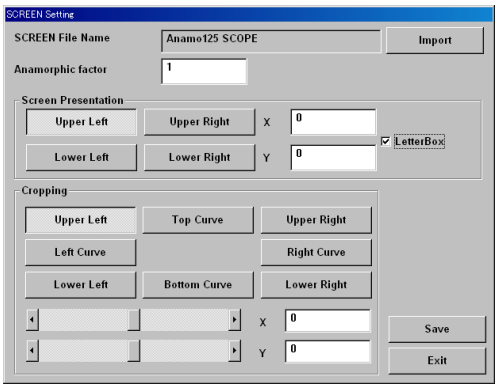
Select the item you want to adjust the amount of cropping (x- and y-coordinate) or the amount of curvature.

You can make adjustments using the scroll bar or entering numerical values.

Upper Left	Sets the amount of cropping at the upper left of the screen. (This becomes the reference point of the XY coordinates.)
Left Curve	Sets the amount of curvature of the left vertical line of the screen. Enter the value of the relative value from the x coordinates of Upper Left and Lower Left. Setting this value to a negative value permits the correction of the distortion of the anamorphic lens.
Lower Left	Sets the amount of cropping at the lower left of the screen
Top Curve	Sets the amount of curvature of the top horizontal line of the screen. Enter the value of the relative value from the y coordinates of Upper Left and Upper Right. Setting this value to a negative value permits the correction of the distortion of the anamorphic lens.

Bottom Curve	Sets the amount of curvature of the bottom horizontal line of the screen. Enter the value of the relative value from the y coordinates of Lower Left and Lower Right. Setting this value to a positive value permits the correction of the distortion of the anamorphic lens.
Upper Right	Sets the amount of cropping at the upper right of the screen.
Right Curve	Sets the amount of curvature of the right vertical line of the screen. Enter the value of the relative value from the x coordinates of Upper Right and Lower Right. Setting this value to a positive value permits the correction of the distortion of the anamorphic lens.
Lower Right	Sets the amount of cropping at the lower right of the screen.

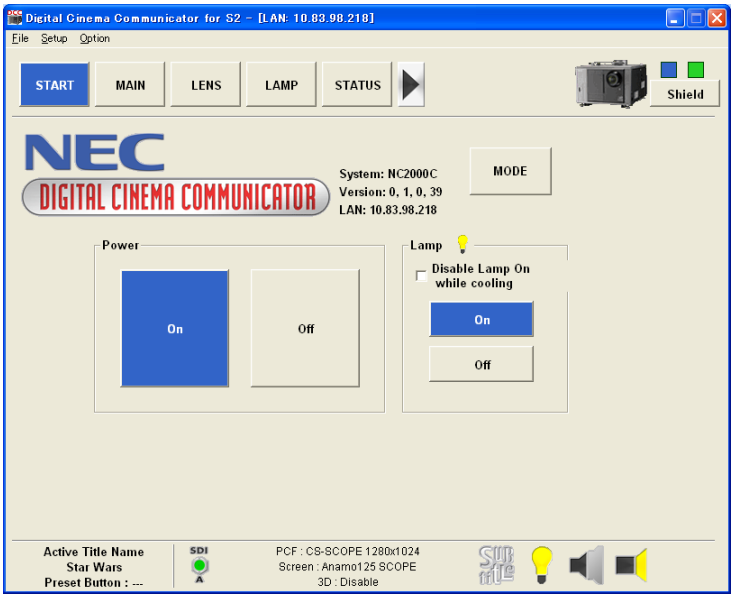
[1] Press the "Save" button.



3.

Menu Functions

This chapter describes the functions of the projector operation menus. See "4. Menu functions [For MMS operation]" (page 117) for the menus for multimedia switcher (MMS) operation.



This is a screen example of the NC2000 Series.

3-1. Project Operation Menu List

Menus in parentheses are menus for our service personnel. Normally, these menus cannot be used.

Main menu	Submenu	Description	Ref. page
START		This screen is displayed when the controller is started. It displays the model name of the connected projector main unit and the DCC version.	49
	POWER On/Off	To turn on and off the projector.	
	Lamp	To turn on and off the lamp. Use this when you do not want to turn on the light though the power is turned on.	
	MODE	To change the menu mode.	
MAIN		Select the input signal from this screen.	51
	Preset Button	To display the titles assigned to the preset buttons*.	
	Title	To display the title list registered in the projector.	
	Test	To display the test pattern list.	
	Anamorphic Out/In	To control the anamorphic lens.	
	Douser Open/Close	To control the Douser function.	
	(Edit Preset Button)	To set the titles to be assigned to the preset buttons*.	
LENS		Control the lens from this screen.	57
	Fine-adjust Mode	Set to operate only while pressing the Lens Shift, Zoom, or Focus buttons.	
	Shift	To shift the lens.	
	Zoom	To zoom in and zoom out.	
	Focus	To adjust focus.	
	Lens Memory	Edit titles and display for the lamp.	
	Lens Mount Initialize	To reset the lens control system in an emergency. You should not normally use this.	
LAMP		Control the lamp from this screen.	59
	Adjust	To adjust the lamp brightness.	
	Lamp Output	To adjust the lamp output.	
	Feedback	To set the lamp brightness constant mode that uses a brightness sensor.	
	Lamp Memory	To save the current lamp settings, and call the saved settings.	
	Information	To display the lamp information.	
	(Setup)	Configures detailed lamp settings.	
STATUS		Projector setting status is displayed in this screen.	64
(TITLE)		Set titles and display the list in this screen. This is used by the service personnel.	65
INFO		Screen for display of various information about the projector.	74
	Status	To check version information and error information for the projector main unit, ICP board, and multi media switcher (MMS). You can also save the logs that have accumulated in the projector main unit.	
	Status2	To check the states of slot A and slot B in the projector main unit and the installation complete date of the projector main unit (warrantee start date).	
	Log	To check the state of the projector main unit and the various logs.	
	SIB	To check the status and version information of the signal input board itself and the security circuit (Enigma) on the signal input board.	
(SETUP)		Screen for initial setting upon installation. This is used by the service personnel.	91
	Setup	Screen for configuring various settings of the projector main unit.	
	Installation	Screen for configuring settings upon installation.	
	(Color Setting)	Set a target color file (TCGD). This is a post production menu.	
	(TCGD Setup)		
	MMS Setting	Configures whether or not the MMS is used.	
	Option Slot	Screen for configuring the settings of slot A and slot B.	

(LAN)		Screen for LAN setting. This is used by the service personnel.	101
	IP Address	Screen for configuring the IP address.	
	Mail	Screen for configuring the email notification function settings.	
	SNMP	Screen for configuring SNMP settings.	
(UPDATE)		This screen is used to update various firmware and system data, backup and restore projector settings files, view log files, etc. This is used by the service personnel.	106
▶ button		Buttons that switch pages for the main menu bar. - Menu items for page 1: START, MAIN, LENS, LAMP, and STATUS - Menu items for page 2: TITLE, INFO, SETUP, LAN and UPDATE	-
Shield button		This button enables and disables the DCC button operations.	-

* Preset buttons 1 to 8 correspond to preset buttons 1 to 8 on the projector.

3-1-1. List of Menu Items of the Tool bar

Menu	Submenu	Description
File	Exit	Terminates DCC.
	Save Execute Log	This is only displayed while in Service mode. The communication packets between the DCC and the target projector can be captured and saved in a text format file.
Setup	Communication Setting	Displays the connection setting dialog. (See page 13)
Option	Always on Top	Select whether the DCC screen is always displayed as the first screen. At activation, "Not display first" is selected. Not checked: The DCC screen is not displayed in the foreground. Checked: The DCC screen is always displayed in the foreground.
	Disp Local Time	Sets the date and time for when logs are displayed using DCC. Not checked: Uses universal coordinated time (UTC). Checked: Uses the local time set in the projector main unit. (See page 96)

3-2. START Screen

When the soft is activated or when you pre ss the "START" button from the menu bar, the START screen is displayed.
From the START screen, you can turn on and off (standby status) the projector, turn on and off the lamp and change the menu mode.

System		Shows the model name of the projector.
Version		Displays the version of the software.
LAN		Displays the IP address of the target projector.
Power "On" button Power "Off" button		Turns on and off (standby status) the power.
Lamp		Turns on and off the lamp. Use this when you do not want to turn on the light though the power is turned on. If this button is set to "Off" in the standby mode, you can turn on the power without tuning on the lamp.
	"Disable Lamp On while cooling" check box	Enables or disables turning on/off of the lamp immediately after switching between On and Off for the lamp. - With check mark: You cannot switch between On and Off of the lamp for about 5 minutes after On/Off switching. - Without check mark: You can turn on or off the lamp immediately after On/Off switching. Usually, use the system with a check mark in this check box.
	"On" button	Turn on the lamp.
	"Off" button	Turn off the lamp.
"MODE" button		This button changes the menu mode.

3-2-1. Changing the menu mode

There are four menu modes available. The menu items that can be used differ depending on the mode.
When you press "MODE" on the START screen, you can switch the menu mode. Dedicated passcodes need to be entered in order to switch to any mode other than user mode.

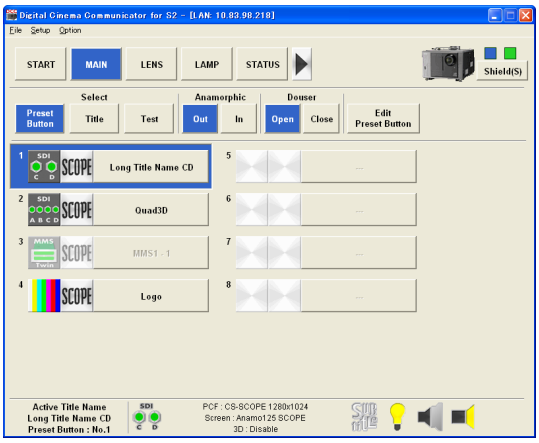
User mode	Menu for usual operation. To display the basic menu items only.
Advanced User mode	Menu for replacement of the lamp. The lamp settings menu can be used in addition to the menus that can be used in User mode.
Installation mode	Menu for installation.
Service mode	Menu for the service personnel.
Pospro mode	Menu for the post productions. A menu item equivalent to the Service mode can be used and detail setup of a target color file (TCGD) is enabled.

When the mode is changed from the User mode, the "MODE" button and the "Shield" button are displayed as shown below.
- In Advanced User mode: "MODE (A)", "Shield (A)"
- In Installation mode: "MODE (I)", "Shield (I)"
- In Service mode: "MODE (S)", "Shield (S)"
- In Pospro mode: "MODE (P)", "Shield (P)"

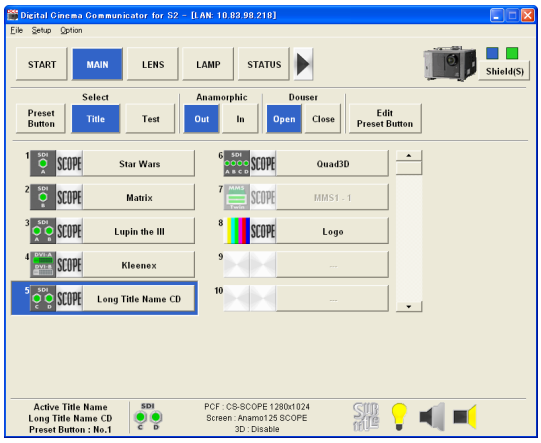
3-3. MAIN Screen

Press the "MAIN" button from the menu bar to display the MAIN screen.
The MAIN screen is used to select the signal to input to the projector, control the anamorphic lens/wide converter lens, and control the douser. The input signal selection can be switched between the following three types by pressing the button in the Select field.

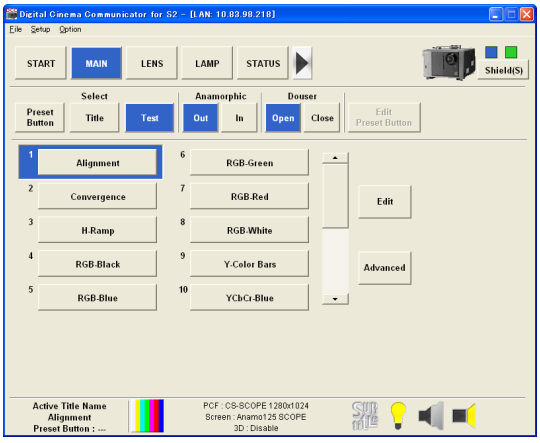
- Preset Button: Displays a list of the preset buttons registered in the projector main unit.
  - Selects the title (input signal) registered in the preset button
  - Sets the preset button
- Title: Displays a list of the titles registered in the projector main unit.
  - Selects the title to project
  - Sets the preset button
- Test: Displays a list of test patterns.
  - Selects the test pattern to project
  - Sets the test pattern



MAIN screen (Preset Button)



MAIN screen (Title)



MAIN screen (Test)

Select			Select the input signal.
	"Preset Button" button		These buttons have the same function as macro keys 1-8 provided on the control panel of the projector. Press the title buttons to select the titles (input signals) assigned to the preset buttons 1-8. - Title displayed in blue: Title is selected. - Title displayed grayed out: The title cannot be selected.
	"Title" button		To display the title list registered in the projector. From this screen, you can select the title (input signal).
	"Test" button		To display the test pattern list from this screen, you can select the test pattern.
		"Edit" button*	To go to the test pattern edit mode to change the registration of the test pattern.
		"Advanced" button*	Displays a detailed setting screen (Test Pattern Advanced) for the currently selected test pattern. This button can only be used while a test pattern is selected.
Anamorphic "Out" button Anamorphic "In" button			These buttons control the anamorphic lens/wide converter lens. - "Out" button: To disable anamorphic lens/wide converter lens. - "In" button: To enable anamorphic lens/wide converter lens.
Douser "Open" button Douser "Close" button			The following buttons control the douser. - "Open" button: Cancels the douser function and let the projection light go. - "Close" button: Causes the douser to shut off the projection light.
"Edit Preset Button" button*			This button is used to edit the preset buttons. (See page 55) This cannot be used while the MAIN screen (Test) is being displayed.

* This menu is only available in the Installation or Service mode.

The icons displayed on the MAIN screen (Preset Button) and MAIN screen (Title) have the following meanings.

Input icon

Shows the input signal terminal.

	Input for SDI-A terminals		Input for SDI-B terminals		Dual input for SDI-A and SDI-B terminals
	Input for SDI-C terminals		Input for SDI-D terminals		Dual input for SDI-C and SDI-D terminals
-	-	-	-		Quad input through the SDI-A, SDI-B, SDI-C, and SDI-D ports (currently not supported)
	Input for DVI-A terminals		Input for DVI-B terminals		Dual/Twin input for DVI-A and DVI-B terminals
	Input for the image media block (IMB) terminal		Multi media switcher (MMS) input (TWIN input)		Built-in test pattern

Type icon

Indicates a signal type.

	SCOPE		FLAT		HDTV
	SDTV		PC		TEST signal
	Signal of Multi-media switcher (MMS)		3D		Signal of Image media block (IMB)
	If none is selected:				

Test Pattern Advanced Screen

This screen can be displayed only when a test pattern is selected in Installation mode or Service mode.

Press the "Advanced" button with the test pattern selected in the MAIN screen (Test) to display the Test Pattern Advanced screen. Detailed settings of the test patterns are configured on this screen.

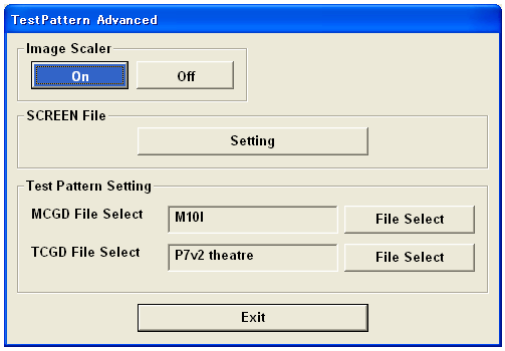


Image Scaler On/Off	Turns on and off the image scaler of the selected test pattern.
SCREEN File Setting	Sets the SCREEN file of the selected test pattern.
Test Pattern Setting	Set the MCGD file and the TCGD file of the selected test pattern.
"Exit" button	Closes the Test Pattern Advanced screen and returns to the MAIN screen.

3-3-1. Configuring the Preset Buttons

The preset buttons can only be configured in Installation mode or Service mode. When the "Edit Preset Button" button is pressed while in User mode or Advanced User mode, the mode needs to be switched by entering the passcode for Installation mode or Service mode.

The preset buttons can be configured by pressing the "Edit preset Button" button on the MAIN screen (Preset Button) or MAIN screen (Title).

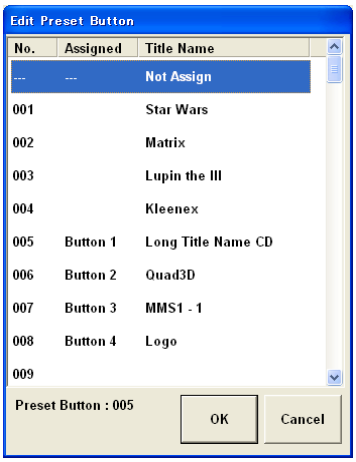
For MAIN screen (Preset Button)

Preparation:
- Selects the title set in the preset button.

[1] Press the "Edit Preset Button" button in the MAIN screen (Preset Button).

[2] Press the preset button to allocate to the title.

[3] Select the title and press the "OK" button.



[4] Press the "Edit Preset Button" button.

For MAIN screen (Title)

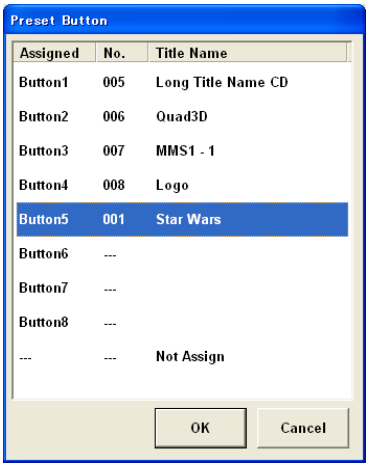
Preparation:

・Selects the title set in the preset button.

[1] Press the "Edit Preset Button" button in MAIN screen (Title).

[1] Press the title allocated to the preset button.

[2] Select the preset button and press the "OK" button.

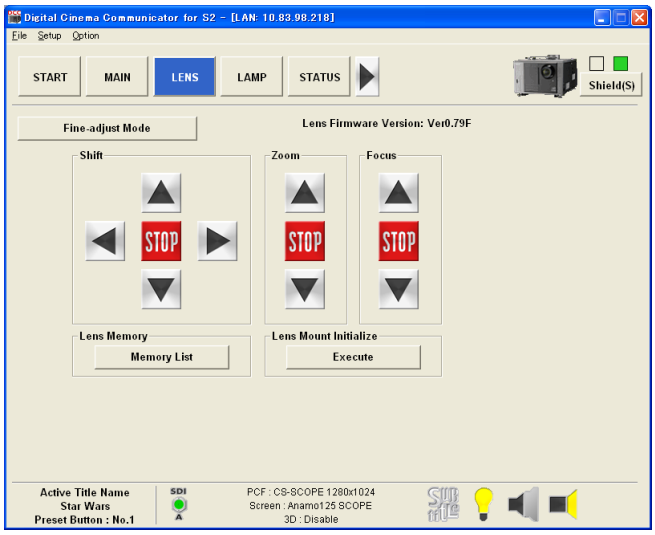


[3] Press the "Edit Preset Button" button.

[4] Press the "Preset Button" button in the Select field.

3-4. LENS Screen

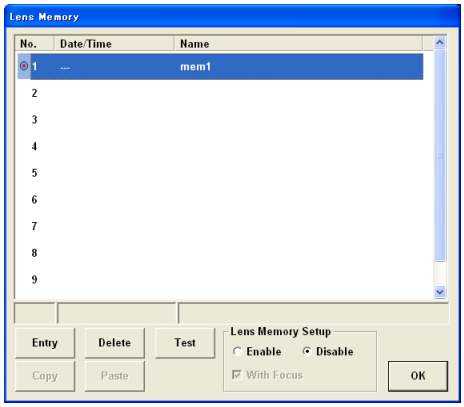
Press the "LENS" button from the menu bar to display the LENS screen.
From the LENS screen, you can perform lens controls such as lens shifting, zoom adjustment, and focus adjustment.



"Fine-adjust Mode" button	Press the "Fine-adjust Mode" button for fine adjustment.
Lens Firmware Version	Displays the firmware version of the lens mount. When the projector is in standby mode, "---" is displayed.
Shift	Move the projection screen vertically and horizontally. "▲" button: To move the projection position upward. "▼" button: To move the projection position downward. "◀" button: To move the projection position to the left. "▶" button: To move the projection position to the right. "STOP" button: To stop the lens shifting. Press the "▲" "▼" "◀" or "▶" buttons again during moving to stop the moving.
Zoom	Zoom in and zoom out the projection screen. "▲" button: To zoom in. "▼" button: To zoom out. "STOP" button: To stop zooming in or out. Press the "▲" or "▼" button again during zooming in or out to stop the zoom-in or zoom-out operation.
Focus	Adjust the focus of the projection screen. "▲" button: To set the focus distance longer. "▼" button: To set the focus distance shorter. "STOP" button: To stop focus moving. Press the "▲" and "▼" button again during a moving focus to stop the focus moving.
Lens Memory	The values after adjustment through the LENS screen (Adjustment values for lens shift, zoom, and focus) can be saved to the memory in the projector. (See page 58)
Lens Mount Initialize	Resets the lens control system in an emergency. You should not normally use this.

Lens Memory Screen

Press the [Memory List] on the LENS window to display the Lens Memory window.
The values after adjustment through the LENS screen (Adjustment values for lens shift, zoom, and focus) can be saved to the memory in the projector.



"Entry" button	Saves the current adjustment value to the memory.
"Delete" button	Deletes the memory selected in the list from the Lens Memory.
"Test" button	Tests the adjustment value of the memory selected in the list.
"Copy" button	Copies the memory selected in the list.
"Paste" button	Saves the copied memory and overwrites the memory selected in the list.
Len Memory Setup	Enables/disables the memory selected in the list. - Enable: Enables memory call-up. - Disable: Disables memory call-up. - With Focus: Apply a check mark here to turn it on to also call up focus adjustment values (Only when the setting is "Enable").
"OK" button	Closes the Lens Memory window and returns to the LENS window.

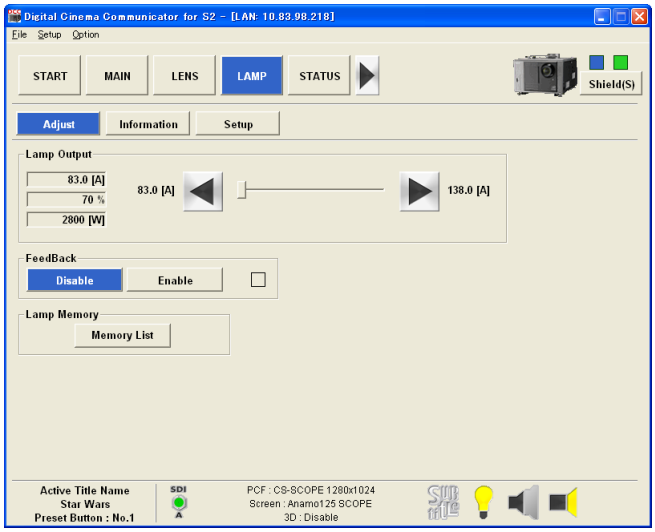
3-5. LAMP Screen

Press the "LAMP" button from the menu bar to go to the LAMP screen.
From the LAMP screen, you can adjust the lamp output and display the lamp information.

- Adjust :To adjust the lamp brightness. (See This page)
- Information :To display the lamp information. (See page 61)
- Setup :To configure detailed lamp settings. (See page 62)

3-5-1. LAMP Screen (Adjust)

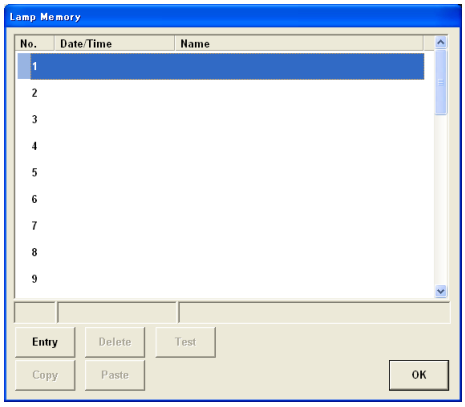
Press the "Adjust" button on the LAMP screen to display the LAMP screen (Adjust).
The lamp output is adjusted using this screen.



Lamp Output	Displays the current lamp output. Press [◀]/[▶] button to adjust the output. The output value can be adjusted by dragging the slide bar between the [◀] and [▶] buttons. If the lamp is off or the douser is closed, "Disabled by . . . (Lamp Off/Douser Close/Lamp Off, Douser Close)" is displayed. When this happens, the output value cannot be adjusted.
FeedBack	Sets the lamp brightness constant mode that uses a brightness sensor. The box on the right side displays the operational status of the Feedback function. - Disable: Disables the lamp brightness constant mode (the color of the box is gray). - Enable: Enables the lamp brightness constant mode (the color of the box is blue).
Lamp Memory	The lamp output values after adjustment through the LAMP screen can be saved to the memory in the projector. Press the "Memory List" button to display Lamp Memory screen. (See page 60)

Lamp Memory Screen

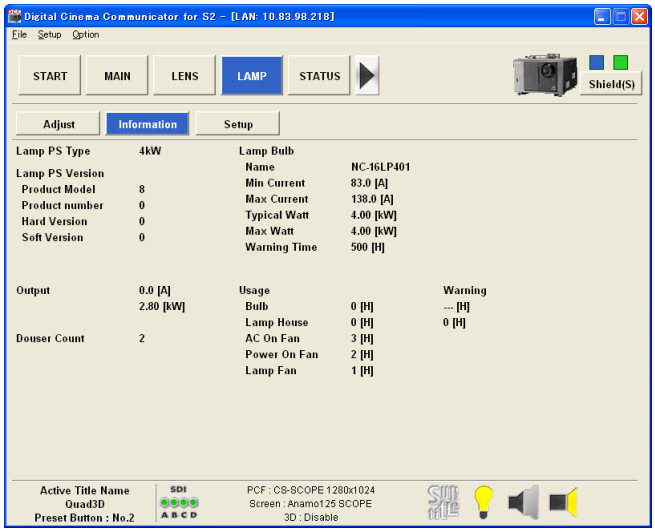
Press the [Memory List] on the LAMP window (Adjust) to display the Lamp Memory window. The lamp output values after adjustment through the LAMP screen can be saved to the memory in the projector.



"Entry" button	Saves the current lamp output value to the memory.
"Delete" button	Deletes the memory selected in the list from the Lens Memory.
"Test" button	Tests the adjustment value of the memory selected in the list.
"Copy" button	Copies the memory selected in the list.
"Paste" button	Saves the copied memory and overwrites the memory selected in the list.
"OK" button	Closes the Lamp Memory window and returns to the LAMP window.

3-5-2. LAMP Screen (Information)

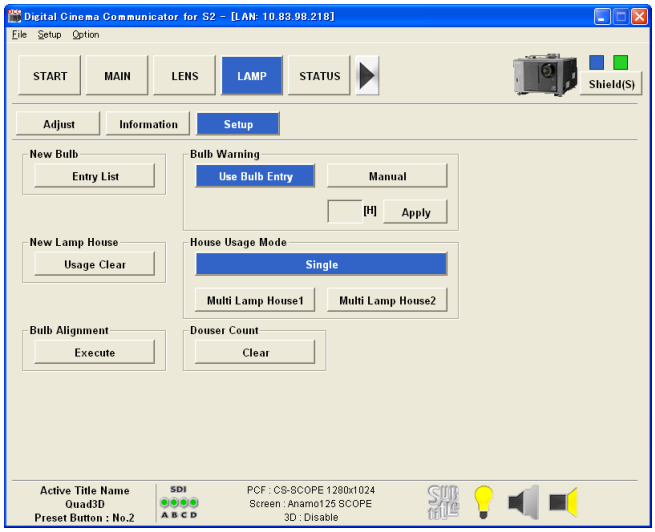
Press the "Information" button on the LAMP screen to display the LAMP screen (Information). You can check the current lamp type and output, the lamp bulb information and the bulb and lamp house utilization hours on this screen.



Lamp PS Type		Displays the type of lamp.
Lamp PS Version		Displays the version information of the lamp.
	Product Model	
	Product Number	
	Hard Version	
	Soft Version	
Lamp Bulb		Displays the version information of the lamp bulb.
	Name	Displays the product name of the lamp bulb.
	Min Current	Displays the minimum current setting value (A) of the lamp bulb.
	Max Current	Displays the maximum current setting value (A) of the lamp bulb.
	Typical Watt	Displays the rated output of the lamp bulb.
	Max Watt	Displays the maximum output of the lamp bulb (kW).
	Warning Time	Displays the warning time setting value of the lamp bulb.
Output		Displays the output value of the lamp.
Douser Count		Displays the number of times the douser has been opened and closed.
Usage		Displays the usage time of the lamp bulb, lamp house, and cooling fan.
Warning		Displays the usage warning time of the lamp bulb and lamp house.

3-5-3. LAMP Screen (Setup)

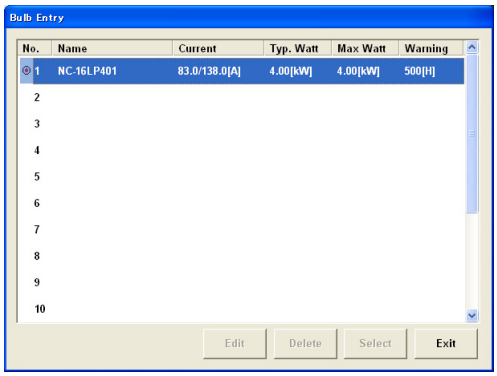
This menu is only available in the Installation or Service mode.
Press the "Setup" button on the LAMP screen to display the LAMP screen (Setup). On the LAMP screen (Setup), you can register and change the lamp bulb, display the bulb alignment value, set the bulb alarm time and the usage mode of the lamp house, etc.



New Bulb	Selects or edits a new entry of the lamp bulb (available in standby status only). Press the "Entry List" button to display the "Bulb Entry" screen. (See page 63)
New Lamp House	Press the "Usage Clear" button to clear the lamp house utilization hours (available in standby status only).
Bulb Alignment	This sets the lamp bulb alignment value. Press the "Execute" button to display the "Bulb Alignment" screen.
Bulb Warning	This sets the lamp bulb alarm time (available in standby status only). - Use Bulb Entry: uses the time set by the Bulb Entry screen. - Manual: Uses the value set manually. For manual setting, input the time and press the "Apply" button. Setting is available from 0 to 9999H.
House Usage Mode	This sets the lamp house usage mode (available in standby status only). - Single: To use the lamp house in the single mode - MultiLamp House 1: To use the lamp house in multiple mode and select the lamp house 1 - MultiLamp House 2: To use the lamp house in multiple mode and select the lamp house 2
Douser Count	The number of times the douser has been opened and closed is cleared by pressing the "Clear" button.

Bulb Entry Screen

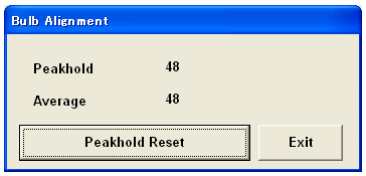
Press the “Entry List” button in the LAMP screen (Setup) to display the "Bulb Entry" screen. You can select or edit a new entry of the lamp bulb on this screen.



“Edit” button	Edits the entry selected in the list.
“Delete” button	Deletes the entry selected in the list from the Bulb Entry.
“Select” button	Sets the entry selected in the list to the active status.
“Exit” button	Closes the Bulb Entry screen and returns to the LAMP screen.

Bulb Alignment Screen

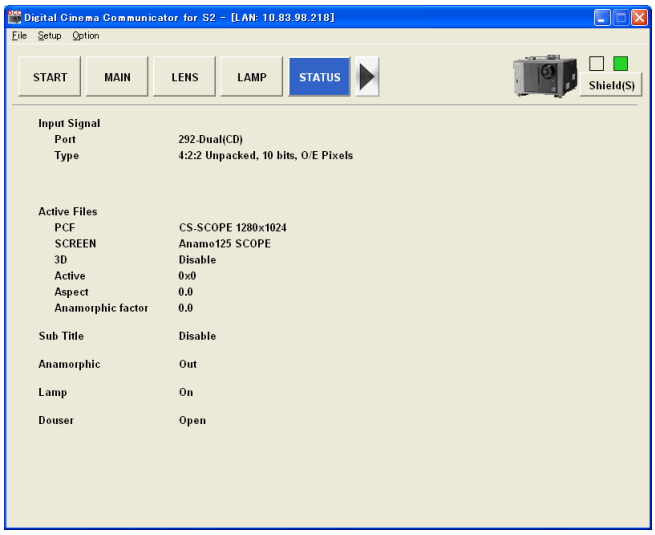
Press the “Execute” button in the LAMP screen (Setup - Bulb Alignment) to display the "Bulb Alignment" screen. This screen is used when adjusting the lamp bulb shaft.



Peakhold	Displays the peak value.
Average	Displays the average.
“Peakhold Reset” button	Resets the peak value.
“Exit” button	Closes the Bulb Alignment screen and returns to the LAMP screen.

3-6. STATUS Screen

Press the "STATUS" button from the menu bar to go to the STATUS screen.
From the STATUS screen, you can check the input signal information and the Projector setting status.



Input Signal	Port	Displays the terminal of input signal.
	Type	Displays the type of input signal.
Active Files	PCF	Displays the name of PCF file selected.
	SCREEN	Displays the name of SCREEN file selected.
	3D	Displays the name of 3D file selected.
	Active	Displays the resolution.
	Aspect	Displays the aspect ratio.
	Anamorphic factor	Displays the anamorphic factor.
Sub Title		Indicates whether to use subtitles (currently not supported).
Anamorphic		Displays the status of anamorphic lens/wide converter lens control (Out/In).
Lamp		Displays the status of lamp output control (On/Off).
Douser		Displays the status of douser control (Open/Close).

3-7. TITLE Screen

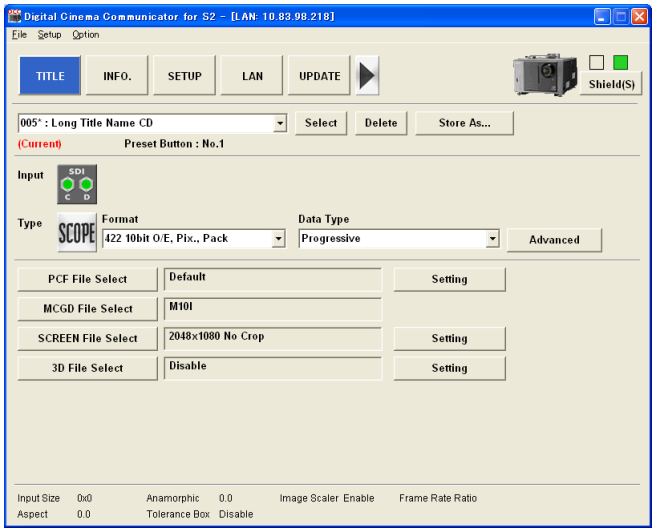
This menu is only available in the Installation or Service mode.
Press the "TITLE" button on the menu bar to display the TITLE screen.

Used to select, delete, and save titles.

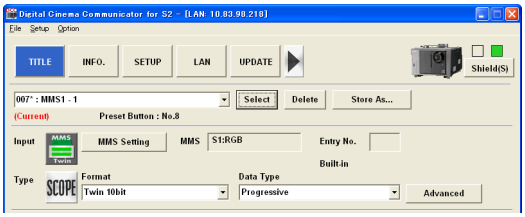
Used to display and set the input port and
signal type of the selected title

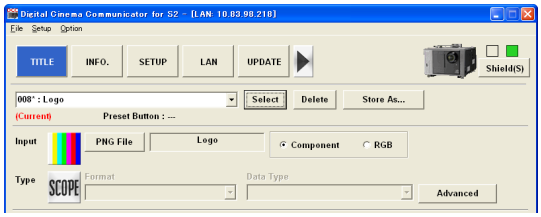
Used for detailed configuration of the selected title.

Displays information about the selected title.



The items displayed in the Input field differ for MMS titles and test patterns.





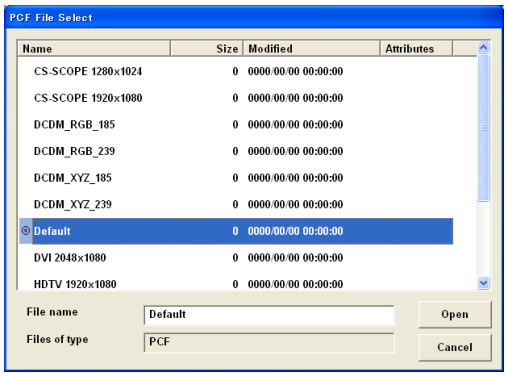
Title names (pull-down menu)		Displays the title name to be edited. - (Current): Indicates the title is being selected. - Preset Button: Shows that the selected title is assigned to the preset button. - (Update): Indicates the title is being edited.
Select		Selects the title selected from the pull-down menu (an asterisk (*) is attached to the title number). Some of the buttons cannot be used if the title is not selected.
Delete		Deletes the title selected in the pull-down menu.
Store As...		Registers the title using the information displayed.
Input		A field that shows or sets the input terminal. Pressing the icon allows you to change the corresponding icon.
	PNG File	(Displayed only when the test pattern is selected.) Displays the name of PNG file selected in the right column.
	Component/RGB	(Displayed only when the test pattern is selected.) Selects Component or RGB signal input.
	MMS Setting	(Displayed only when MMS is selected.) Sets the MMS. The name of the selected signal and Entry No. are displayed in the right column.
Type		A field that shows or sets the input source. Pressing the icon allows you to change the corresponding icon.
	Format	Selects a format for the input source.
	Data Type	Selects a data type for the input source.
	Advanced	Sets the details of the input source.(See page 68)
PCF File Select		Selects a PCF file. (See page 67) Displays the name of PCF file selected in the right column.
	Setting	This button changes and saves the PCF file settings being used by the title selected for output. (See page 6923)
MCGD File Select		Selects a MCGD file. (See page 67) Displays the name of MCGD file selected in the right column.
SCREEN File Select		Selects a SCREEN file. (See page 67) Displays the name of SCREEN file selected in the right column.
	Setting	This button changes and saves the SCREEN file settings being used by the title selected for output. (See page 72)
3D File Select		This button selects the 3D file. (See page 67) The currently selected file name is displayed in the field on the right.
	Setting	This button changes and saves the 3D file settings being used by the title selected for output. (See page 73)
(View status)		Shows information on the title selected. Any information shown in this status display space is set to the projector. - Input Size: Displays the input resolution setting. - Aspect: Displays the input aspect setting. - Anamorphic: Displays the setting of the anamorphic lens. - Tolerance Box: Displays the setting of the white correction mode. (Enable: White correction with priority for brightness; Disable: White correction with priority for color.) - Image Scaler: Displays the setting of the Image Scaler. (Same as the indication in the Title Advanced screen.) - Frame Rate Ratio: Displays the setting of the Frame Rate Ratio. (Same as the indication in the 3D Controls screen.)

Selecting the Settings File

If you press the "*** File Select" button or the "Import" button, a screen is displayed for selecting an existing settings file.

PCF File Select screen	Selects a PCF file.
MCFD File Select screen	Selects a MCFD file.
SCREEN File Select screen	Selects a SCREEN file.
3D File Select screen	Selects a 3D file.
TCGD File Select screen	Selects a TCGD file.
LUT-CLUT File Select screen	Selects a LUT-CLUT file.
LUT-DG File Select screen	Selects a LUT-DG file.

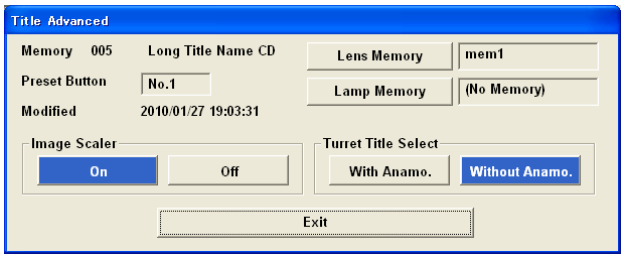
Select the file to use and press the "Open" button to use the selected file. This screen is an example of the PCF File Select screen.



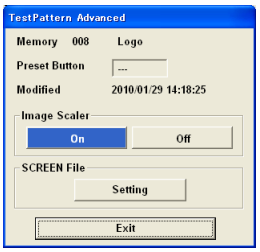
"Open" button	Uses the selected file.
"Cancel" button	Returns to the previous screen.

3-7-1. Title Advanced Screen

Press the "Advanced" button on the TITLE screen to display the Title Advanced screen. On the Title Advanced screen you set the details of signal type.



For normal titles and MMS titles

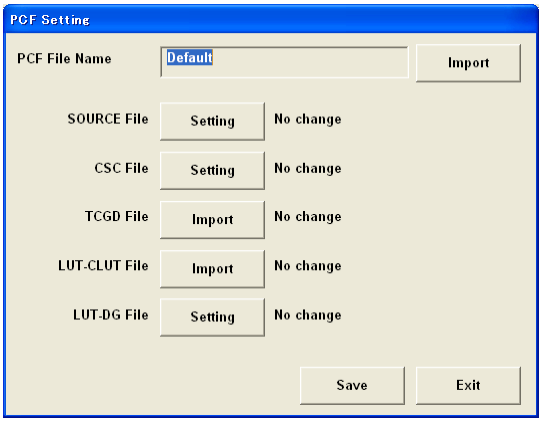


For test patterns

Memory	Displays the title (number and name) selected.
Preset Button	Displays preset button numbers if preset buttons are assigned. For assignment of preset buttons, refer to "3-3-1 Configuring the Preset Buttons" (page 55).
"Lens Memory" Button	Select a lens memory to associate with the selected title when the lens memory is used. Press the "Lens Memory" button to display the "Lens Memory" screen. For the setup of lens memory, see the description of "Memory List" buttons on the "LENS" screen. (See page 58) - When you want to use the lens memory, select it from the "Lens Memory" screen and press the "OK" button. - When you do not want to use the lens memory, select "Not Use" from the "Lens Memory" screen and press the "OK" button. - The associated lens memory appears in the right column of the "Lens Memory" button.
"Lamp Memory" Button	Select a lamp memory to associate with the selected title when the lamp memory is used. Press the "Lamp Memory" button to display the "Lamp Memory" screen. For the setup of lamp memory, see the description of "Memory List" buttons on the "LAMP" screen. (See page 60) - When you want to use the lamp memory, select it from the "Lamp Memory" screen and press the "OK" button. - When you do not want to use the lamp memory, select "Not Use" from the "Lamp Memory" screen and press the "OK" button. - The associated lamp memory appears in the right column of the "Lamp Memory" button.
Image Scaler	Controls the scaling circuit. Keep Enable in normal operations.
Turret Title Select	Sets whether the power turret of anamorphic lens is used or not. - With Anamo. : Turret is used. - Without Anamo. : Turret is not used.
"Exit" button	Used to save all the settings entered and quit the Title Edit submenu/operation.

3-7-2. PCF Setting Screen

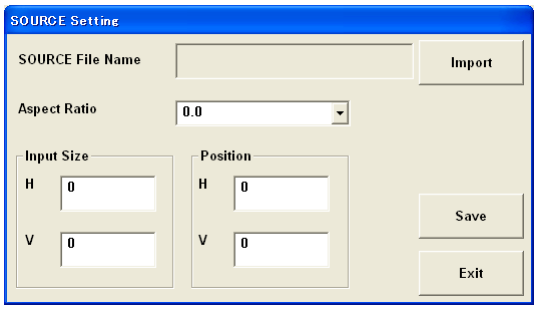
Press the "Setting" button on the TITLE screen to display the PCF Setting screen. On the PCF Setting screen, PCF files are created using the PCF Setting screen.



PCF File Name	Displays the name of PCF file selected.
"Import" button	Used to call an existing PCF file. (See page 67)
SOURCE File	The SOURCE file settings can be changed. Press the "Setting" button to display the SOURCE Setting screen. (See page 70)
CSC File	The CSC file settings can be changed. Press the "Setting" button to display the CSC Setting screen. (See page 70)
TCGD File	Selects a TCGD file. Press the "Import" button to display TCGD File Select screen. (See page 67)
LUT-CLUT File	Selects a LUT-CLUT file. Press the "Import" button to display the LUT-CLUT File Select screen. (See page 67)
LUT-DG File	Selects a LUT-DG file. Press the "Setting" button to display the LUT-DG screen. (See page 71)
"Save" button	Used to create a new PCF file. (Do not use this button in other cases.)
"Exit" button	Returns to the TITLE screen. Press this button when you have entered all values.

SOURCE Setting Screen

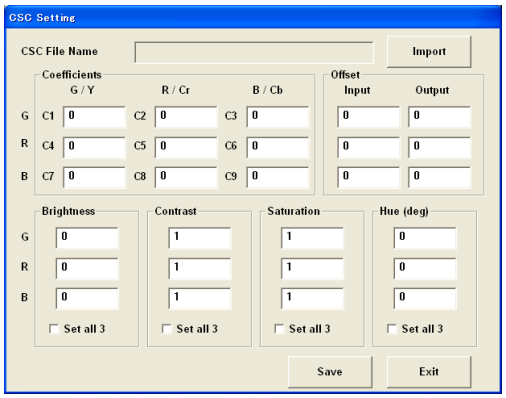
Press the "Setting" button in the SOURCE File field in the PCF Setting screen to display the SOURCE Setting screen.



SOURCE File Name	Displays the name of SOURCE file selected.
"Import" button	Used to call an existing SOURCE file. (See page 67)
Aspect Ratio	Enter or select the final aspect ratio of the content entered.
Position	Sets the image display position. Usually select 0 for all positions.
Input Size	Enter the effective area of the input signal.
"Save" button	Used to create a new SOURCE file. (Do not use this button in other cases.)
"Exit" button	Returns to the previous screen. Press this button when you have entered all values.

CSC Setting Screen

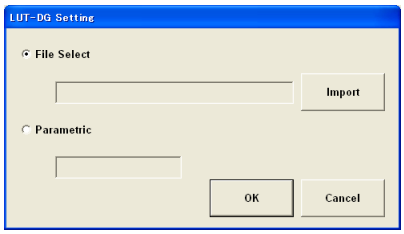
Press the "Setting" button in the CSC File field in the PCF Setting screen to display the CSC Setting screen.



CSC File Name	Displays the name of CSC file selected.
"Import" button	Used to call an existing CSC file. (See page 67)
Coefficience Offset Brightness Contrast Saturation Hue (deg)	To change the setting, enter a number. This does not normally need to be changed.
"Set all 3" check box	This is used when setting all of the setting values to the same value in one go. Checked: The value entered in G also applies to R and B. Not checked: You can set G, R, and B to different values.
"Save" button	Used to create a new CSC file. (Do not use this button in other cases.)
"Exit" button	Returns to the previous screen. Press this button when you have entered all values.

LUT-DG Setting Screen

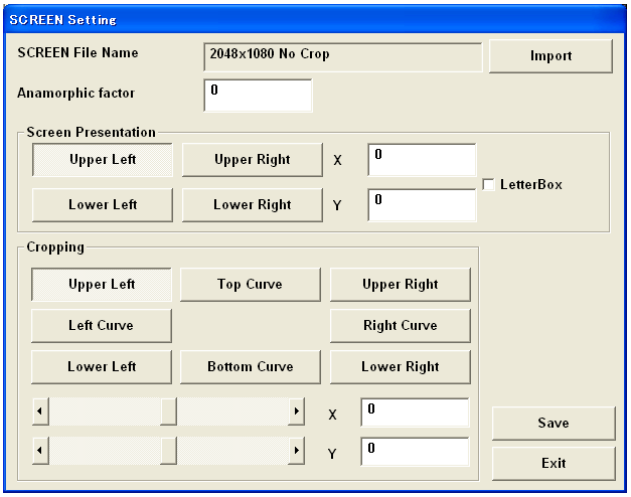
Press the "Setting" button in the LUT-DG File field in the PCF Setting screen to display the LUT-DG Setting screen.



File Select Parametric	You should normally select "File Select".
"Import" button	Used to call an existing LUT-DG file. (See page 67)
"OK" button	Confirms the settings.
"Cancel" button	Abandons the settings and returns to the previous screen.

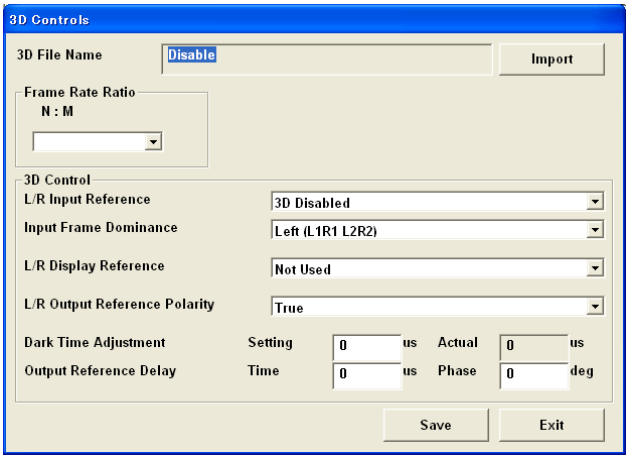
3-7-3. SCREEN Setting Screen

Press the "Setting" button in the SCREEN File Select field in the TITLE screen to display the SCREEN Setting screen. This screen is used to create new SCREEN files and to modify the settings in previously created SCREEN files.



3-7-4. 3D Controls Screen

Press the "3D Controls" button in the 3D File Select field of the Title screen to display the 3D Controls screen. This screen is used to create new 3D files and to change the settings in previously created 3D files.



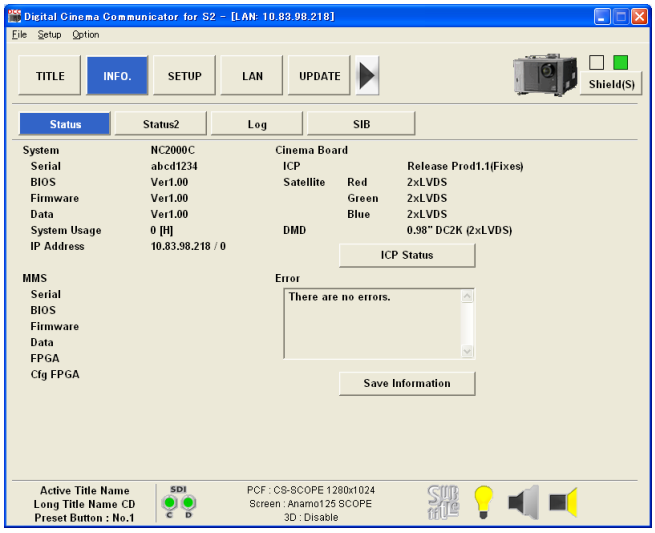
3-8. INFO Screen

Press the "INFO" button on the menu bar to display the INFO screen.
The INFO screen is made up of the following four screens that allow you to check information and various logs of the projector main unit and multi media switcher.

- Status: Allows you to check version information and error information for the projector main unit, ICP board, and multi media switcher (MMS). You can also save the logs that are saved in the projector main unit onto a computer. (See page 75)
- Status2: Allows you to check the states of slot A and slot B in the projector main unit and the installation complete date of the projector main unit (warrantee start date). (See page 78)
- Log: Allows you to check the state of the projector main unit and the various logs. (See page 79)
- SIB: Allows you to check the status and version information of the signal input board itself and the security circuit (Enigma) on the signal input board. (See page 89)

3-8-1. INFO Screen (Status)

Press the "Status" button on the INFO screen to display the INFO screen (Status).
You can check version information and error information for the projector main unit CPU board, ICP board, and multi media switcher (MMS) using this screen. You can also save the logs that are saved in the projector main unit onto a computer.

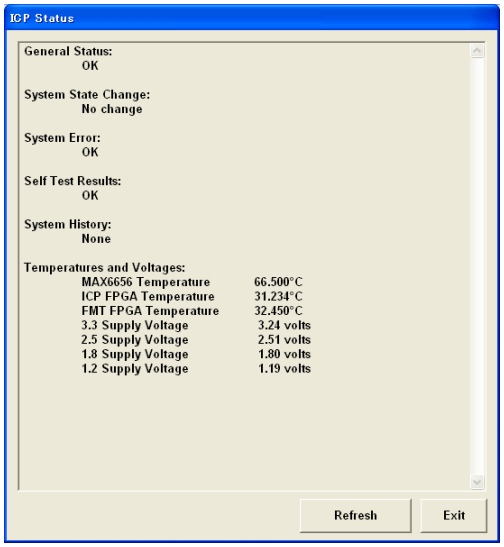


System			Displays the version information of the projector main unit and the CPU board in the projector.
	Serial		Displays the serial number of the CPU board.
	BIOS		Displays the BIOS version of the CPU board.
	Firmware		Displays the firmware version of the CPU board.
	Data		Displays the data version of the CPU board.
	System Usage		Displays the hours of use of the projector main unit.
	IP Address		Displays the IP address and the subnet mask of the projector main unit.
MMS			Displays the version information of the MMS connected to the projector head.
	Serial		Displays the serial number of the MMS.
	BIOS		Displays the BIOS version of the MMS.
	Firmware		Displays the firmware version of the MMS.
	Data		Displays the data version of the MMS.
	FPGA		Displays the FPGA version of the MMS.
	Cfg FPGA		Displays the Configuration FPGA version of the MMS.
	IP Address		Displays the IP address of use of MMS.
Cinema Board			Displays the version information of the ICP board or Satellite board.
	ICP		Displays the ICP system working version.
	Satellite	Red	Displays the satellite board type of the ICP board (2xLVDS/DDR).
		Green	
		Blue	
	DMD		Displays the DMD type (0.98" DC2K/1.2" DC2K).

	"ICP Status" button	Displays the ICP Status screen. (See page 76) Displays detailed information about the ICP board.
Error		Displays the error currently occurring.
"Save Information" button		Saves various information about the CPU board, the ICP board, the MMS and the signal input board (SIB) in text format.

ICP Status Screen

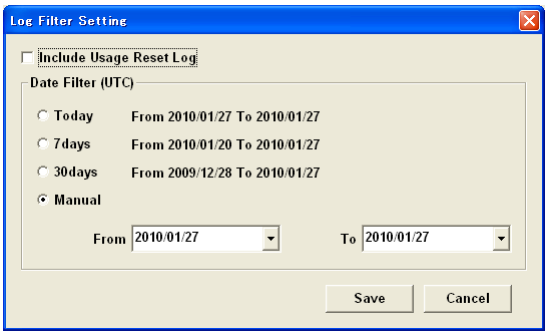
Press the "ICP Status" button in the Cinema Board field of the INFO screen (Status) to display the ICP Status screen. You can check the status of the ICP board using this screen.



"Refresh" button	Updates the displayed contents to the newest information.
"Exit" button	Returns to the previous screen.

Log Filter Setting Screen

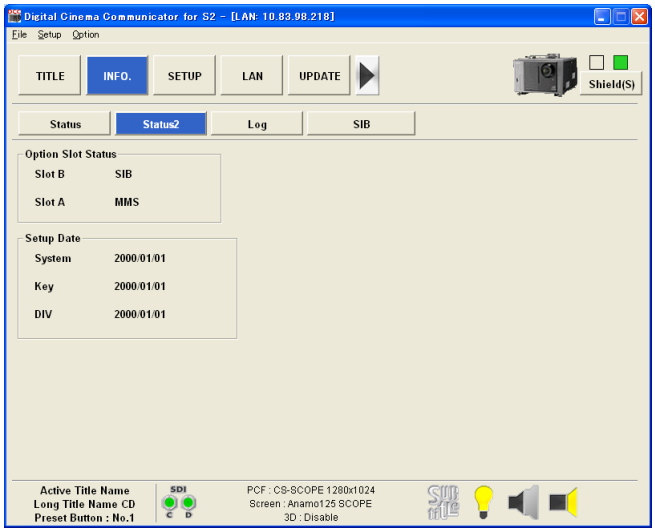
Press the "Save Information" button in the Error field of the INFO screen (Status) to display the Log Filter Setting screen. This screen is used to configure whether or not to save the log of when the lamp bulb, lamp housing, fans, and air filters are reset (Usage Reset Log) to match the period of the log saved on the PC.



"Include Usage Reset Log" check box	Sets whether or not to include the log of when the lamp bulb, lamp housing, fans, and air filters are reset (Usage Reset Log) in the log saved on the PC. Checked: Includes the Usage Reset Log when saving the log Not checked: Does not include the Usage Reset Log when saving the log
"Save" button	Saves the log onto the PC using the configured settings.
"Exit" button	Returns to the previous screen.

3-8-2. INFO Screen (Status2)

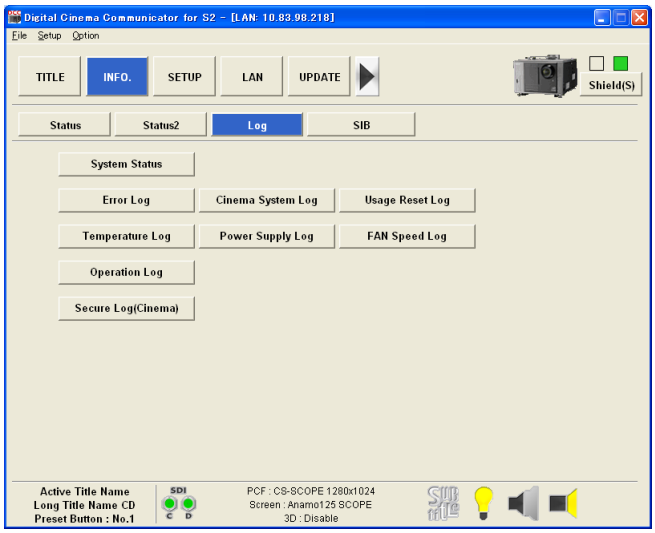
Press the "Status2" button on the INFO screen to display the INFO screen (Status2).
You can check the states of slot A and slot B in the projector main unit and the installation complete date of the projector main unit (warrantee start date) using this screen.



Option Slot Status		Displays information about slot A and slot B. The slot settings are configured from the SETUP screen (Option Slot).
	Slot B	Displays the settings of slot B. Parentheses () are added to the device name when the projector is in standby mode or the installed devices cannot be identified.
	Slot A	Displays the settings of slot A. Parentheses () are added to the device name when the projector is in standby mode or the installed devices cannot be identified.
Setup Date		Displays the installation complete date when of the projector (warrantee start date). The installation complete date is configured from the UPDATE screen.
	System	Displays the installation complete date (warrantee start date) of the projector as saved in the CPU board.
	Key	Displays the installation complete date (warrantee start date) of the projector as saved in the Key board.
	DIV	Displays the installation complete date (warrantee start date) of the projector as saved in the DIV board.

3-8-3. INFO Screen (Log)

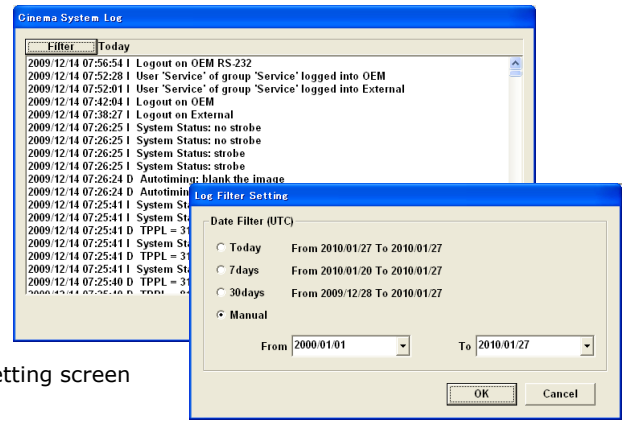
Press the “Log” button on the INFO screen to display the INFO screen (Log).
You can check the various logs saved in the projector main unit from this screen.



"System Status" button	Displays the System Status screen. (See page 81) This displays the temperature, voltage, and fan speed inside the projector main unit.
“Error Log” button	Displays the System Error Log screen. (See page 83) This displays CPU board error information.
“Cinema System Log” button	Displays the Cinema System Log screen. (See page 83) This displays ICP board error information.
“Usage Reset Log” button	Displays the User Reset Log screen. (See page 84) This displays various information about when the usage times of the lamp bulb, lamp housing, fans, and air filters were reset.
“Temperature Log” button	Displays the Temperature Log screen. (See page 85) This displays a record of the temperature from when the projector was turned on until it was turned off (peak hold).
“Power Supply Log” button	Displays the Power Supply Log screen. (See page 86) This displays a record of the voltage from when the projector was turned on until it was turned off (peak hold).
“FAN Speed log” button	Displays the FAN Speed Log screen. (See page 87) This displays a record of the fan speed (minimum value) from when the power was turned on until it was turned off.
“Operation Log” button	Displays the Lamp Operation Log screen. (See page 88) This displays a record of the operation of the projector.
“Secure Log(Cinema)” button	Displays the Secure Log (Cinema) screen. (See page 88) This displays a log of the security circuit (Enigma) on the signal input board.

Log Filtering Function

Press the "Filter" button to display the Log Filter Setting screen. You can set the period of logs to display using this screen.


Cinema System Log
Filter
Today
2009/12/14 07:56:54 I Logout on OEM RS-232
2009/12/14 07:52:28 I User 'Service' of group 'Service' logged into OEM
2009/12/14 07:52:01 I User 'Service' of group 'Service' logged into External
2009/12/14 07:42:04 I Logout on OEM
2009/12/14 07:38:27 I Logout on External
2009/12/14 07:26:25 I System Status: no strobe
2009/12/14 07:26:25 I System Status: no strobe
2009/12/14 07:26:25 I System Status: strobe
2009/12/14 07:26:25 I System Status: strobe
Log Filter Setting
Date Filter (UTC)
Today From 2010/01/27 To 2010/01/27
7days From 2010/01/20 To 2010/01/27
30days From 2009/12/28 To 2010/01/27
Manual
From 2000/01/01
To 2010/01/27
OK
Cancel

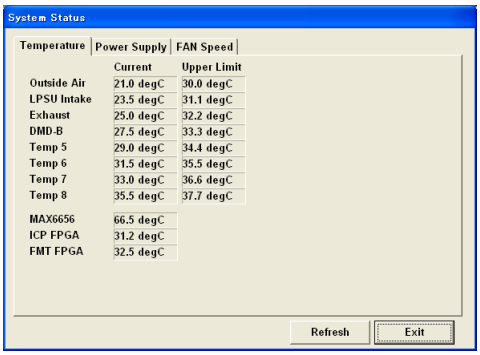
Log Filter Setting screen

Today	Displays only the log for today.
7days	Displays the log for the last 7 days including today.
30days	Displays the log for the last 30 days including today.
Manual	Displays the log for the specified period (from From to To). From: Selects the start date of the period for which to display the logs. To: Selects the end date of the period for which to display the logs. Click "Today" in the calendar to set to today's date.
"OK" button	Displays the logs that match the specified conditions.
"Cancel" button	Cancels the settings and returns to the previous screen.

System Status Screen

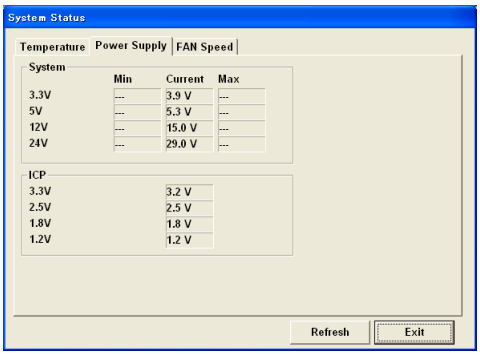
This screen displays the temperature, voltage, and fan speed inside the projector main unit. Click the "Temperature", "Power Supply", and "FAN Speed" tabs to switch between the items displayed.

System Status screen (Temperature)



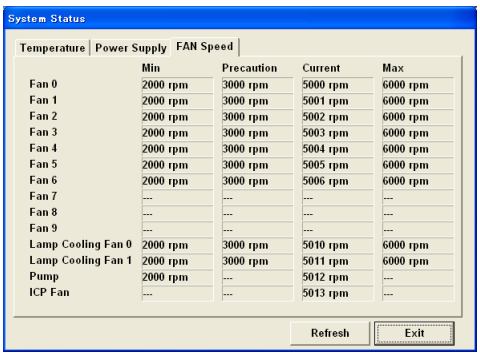
Outside Air LPSU Intake Exhaust DMD-B Temp 5 Temp 6 Temp 7 Temp 8 MAX6656 ICP FPGA FMT FPGA	Current Upper Limit	Displays the temperatures of each part of the projector. Refer to the "Service Manual" for details.
"Refresh" button		Updates the displayed contents to the newest information.
"Exit" button		Returns to the previous screen.

System Status screen (Power Supply)



System		Displays the voltage of the projector.
	Current	Displays the current voltage.
	Min	Displays the upper limit value of the voltage. An error occurs if the voltage exceeds this value.
	Max	Displays the lower limit value of the voltage. An error occurs if the voltage drops below this value.
ICP		Displays the ICP board voltage.
"Refresh" button		Updates the displayed contents to the newest information.
"Exit" button		Returns to the previous screen.

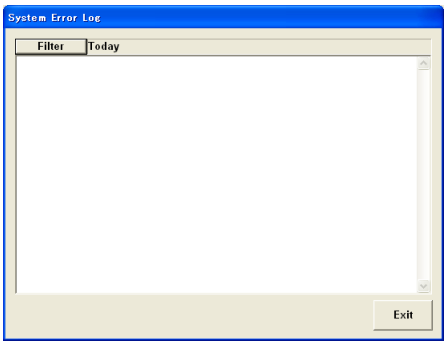
System Status screen (FAN Speed)



Fan 0 to Fan 9 Lamp Cooling Fan 0 Lamp Cooling Fan 1 Pump ICP Fan		Displays the fan speed.
	Min	Displays the lower limit value of the fan speed. An error occurs if the fan speed drops below this value.
	Precaution	Displays the warning value of the fan speed. A warning occurs if the fan speed drops below this value.
	Current	Displays the current voltage.
	Max	Displays the upper limit value of the fan speed. An error occurs if the fan speed exceeds this value.
"Refresh" button		Updates the displayed contents to the newest information.
"Exit" button		Returns to the previous screen.

System Error Log Screen

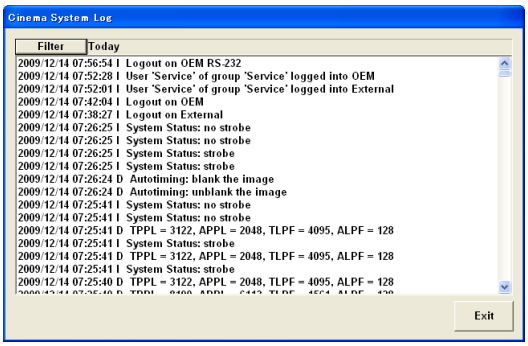
This screen displays a log of CPU board errors.



"Filter" button	Sets the period of the log to display. (See page 77)
"Exit" button	Returns to the previous screen.

Cinema System Log Screen

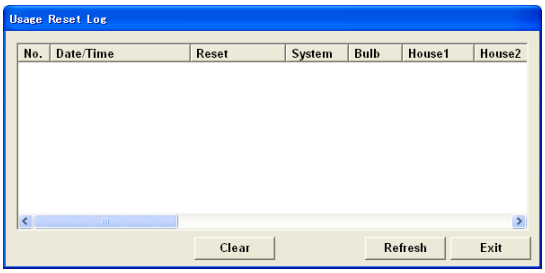
This screen displays a log of ICP board errors.


Cinema System Log
Filter
Today
2009/12/14 07:56:54 I Logout on OEM RS-232
2009/12/14 07:52:28 I User 'Service' of group 'Service' logged into OEM
2009/12/14 07:52:01 I User 'Service' of group 'Service' logged into External
2009/12/14 07:42:04 I Logout on OEM
2009/12/14 07:38:27 I Logout on External
2009/12/14 07:26:25 I System Status: no strobe
2009/12/14 07:26:25 I System Status: no strobe
2009/12/14 07:26:25 I System Status: strobe
2009/12/14 07:26:25 I System Status: strobe
2009/12/14 07:26:24 D Autotiming: blank the image
2009/12/14 07:26:24 D Autotiming: unblank the image
2009/12/14 07:25:41 I System Status: no strobe
2009/12/14 07:25:41 I System Status: no strobe
2009/12/14 07:25:41 D TPPL = 3122, APPL = 2048, TLPF = 4095, ALPF = 128
2009/12/14 07:25:41 I System Status: strobe
2009/12/14 07:25:41 D TPPL = 3122, APPL = 2048, TLPF = 4095, ALPF = 128
2009/12/14 07:25:41 I System Status: strobe
2009/12/14 07:25:40 D TPPL = 3122, APPL = 2048, TLPF = 4095, ALPF = 128
Exit

"Filter" button	Sets the period of the log to display. (See page 77)
"Exit" button	Returns to the previous screen.

Usage Reset Log Screen

This screen can be displayed in Service mode only. When usage times of the lamp bulb, lamp housing, fans, and air filters are reset, the following items are saved with the values immediately before reset treated as the log information when the utilization hours are reset. This screen shows 64 items at most (64 items from the newest one are displayed).



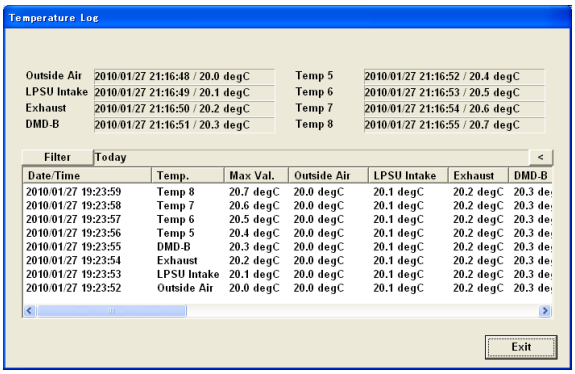
No.	Displays the record No.
Date/Time	Displays the date and time.
Reset	Displays the reset subject. - Lamp bulb: Bulb - Lamp house: House1/House2 - Fan: AC On Fan/Power On Fan - Air filter: Body Filter/Lamp Filter
System	Displays the utilization hours of the projector main unit.
Bulb	Displays the utilization hours of lamp bulb.
House1	Displays the utilization hours of lamp house 1.
House2	Displays the utilization hours of lamp house 2.
Bulb Name	Displays the bulb entry name.
Min[A]	Displays the minimum current value (A).
Max[A]	Displays the maximum current value (A).
Typical	Displays the lamp output (kW) average.
Max[W]	Displays the maximum value of lamp output (kW).
Warning Time	Displays the warning time.
Bulb Warning	Displays the currently enabled warning time set by the Bulb Warning setting.
AC On Fan	Displays the speeds of the projector cooling fans (AC On Fan). Refer to the "Service Manual" for details.
Power On Fan	Displays the speeds of the projector cooling fans (Power On Fan). Refer to the "Service Manual" for details.
Lamp Fan	Displays the speeds of the lamp cooling fan.
Body Filter	Displays the usage time of the air filters for the projector head.
Lamp Filter	Displays the usage time of the air filters for the lamp.
"Clear" button	Clears the usage reset log and closes the screen.
"Refresh" button	Updates the displayed contents to the newest information.
"Exit" button	Returns to the previous screen.

Temperature Log Screen

This screen displays the maximum temperature recorded in the period from when the projector was turned on until it was turned off.

The upper half of the screen displays the maximum temperatures measured and dates and times for each item from when the power was last turned on until now. The information that is saved in the log when the power is turned off is displayed in sequential order in the lower half of the screen. When saved as a log, information at the time when the log was recorded (all temperatures, fan speeds, and lamp outputs within the projector) is also saved in addition to the maximum temperature and date and time of each item.

You can switch between the number of items displayed (all items or maximum temperatures only) by pressing the [<] button.

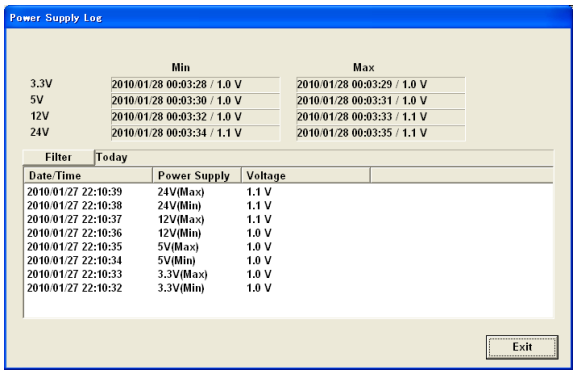


"Filter" button	Sets the period of the log to display. (See page 77)
Temp.	Displays the item where the maximum temperature was measured.
Max Val.	Displays the maximum temperature.
Outside Air	Displays the temperature at the Date/Time.
LPSU Intake	
Exhaust	
DMD-B	
Temp5	
Temp6	
Temp7	
Temp8	
Fan 0 to Fan9	Displays the fan speed at the Date/Time.
Lamp Cooling Fan 0	
Lamp Cooling Fan 1	
Pump	
ICP Fan	Displays the lamp output at the Date/Time.
Lamp Output	Displays the date and time when the maximum temperature was measured.
"Exit" button	Returns to the previous screen.

Power Supply Log Screen

This screen displays the maximum and minimum voltage values recorded in the period from when the projector was turned on until it was turned off.

The upper half of the screen displays the maximum/minimum voltages measured and dates and times for each item from when the power was last turned on until now. The information that is saved in the log when the power is turned off is displayed in sequential order in the lower half of the screen.

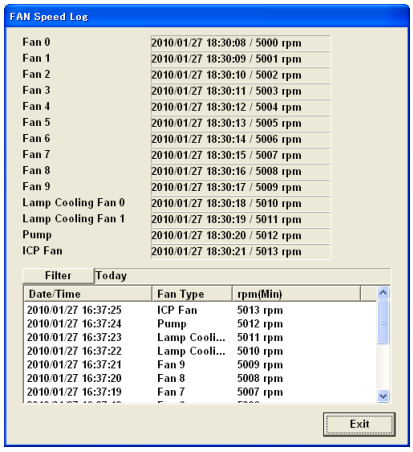


"Filter" button	Sets the period of the log to display. (See page 77)
Date/Time	Displays the date and time when the maximum/minimum voltage was measured.
Power Supply	Displays the item where the maximum/minimum voltage was measured. (Max): Displays the maximum value. (Min): Displays the minimum value.
Voltage	Displays the measured voltage.
"Exit" button	Returns to the previous screen.

FAN Speed Log Screen

This screen displays the minimum fan speeds recorded in the period from when the projector was turned on until it was turned off.

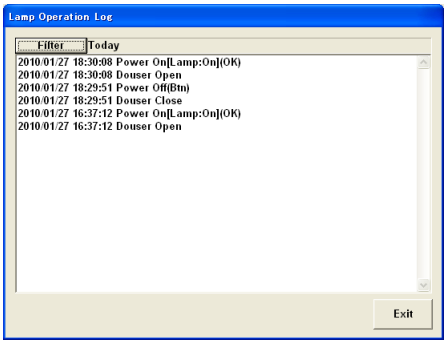
The upper half of the screen displays the minimum fan speeds measured and dates and times for each item from when the power was last turned on until now. The information that is saved in the log when the power is turned off is displayed in sequential order in the lower half of the screen.



"Filter" button	Sets the period of the log to display. (See page 77)
Date/Time	Displays the date and time when the minimum fan speed was measured.
Fan Type	Displays the type of fan.
rpm(Min)	Displays the fan speed (minimum value).
"Exit" button	Returns to the previous screen.

Operation Log Screen

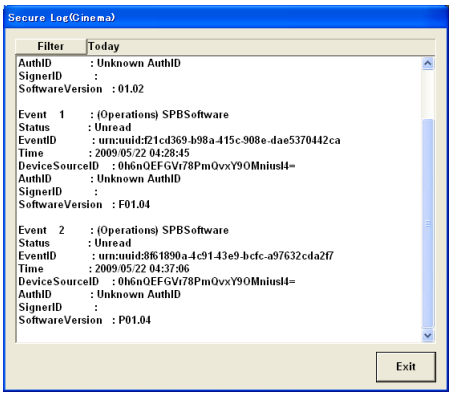
This screen displays a record of the operation of the projector.



"Filter" button	Sets the period of the log to display. (See page 77)
"Exit" button	Returns to the previous screen.

Secure Log(Cinema) Screen

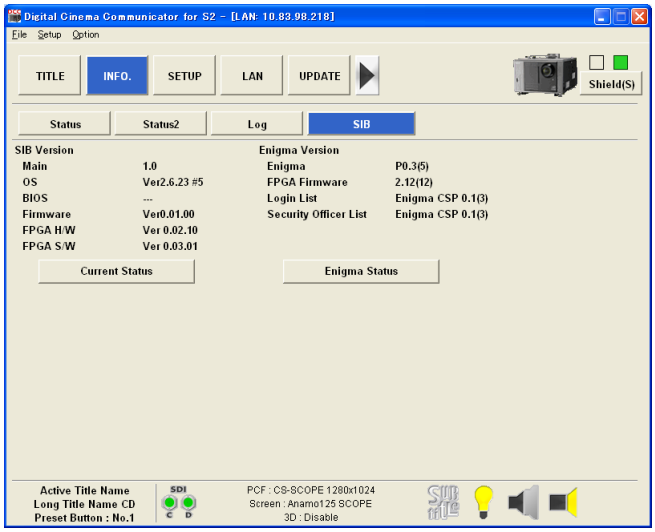
This screen displays a log of the security circuit (Enigma) on the signal input board.



"Exit" button	Returns to the previous screen.

3-8-4. INFO Screen (SIB)

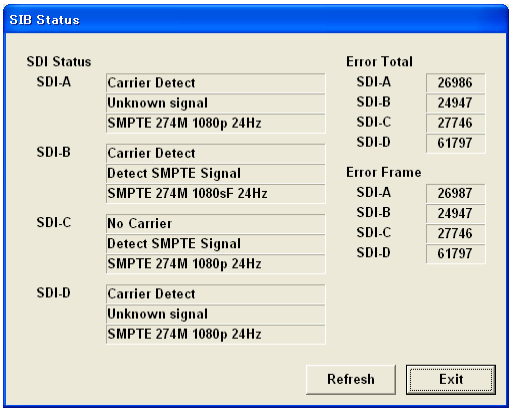
Press the "SIB" button on the INFO screen to display the INFO screen (SIB).
This screen displays version information about the signal input board and version information about Enigma (the security circuit built into the signal input board)



SIB Version		Displays information about the signal input board.
	Main	Displays version information about the signal input board.
	OS	Displays OS version information about the signal input board.
	BIOS	Displays BIOS version information about the signal input board. Currently, "---" is displayed.
	Firmware	Displays firmware version information about the signal input board.
	FPGA H/W	Displays FPGA H/W version information about the signal input board.
	FPGA S/W	Displays FPGA S/W version information about the signal input board.
	"Current Status" button	Displays the SIB Status screen. (See page 90) Displays version information about the SDI input port of the signal input board.
Enigma Version		Displays information about the security circuit (Enigma) built into the signal input board.
	Enigma	Displays version information about Enigma.
	FPGA Firmware	Displays version information about the FPGA firmware.
	Login List	Displays version information about the Login List.
	Security Officer List	Displays version information about the Security Officer List.
	"Enigma Status" button	Displays the Enigma Status screen. (See page 90) Displays detailed information about Enigma.

SIB Status Screen

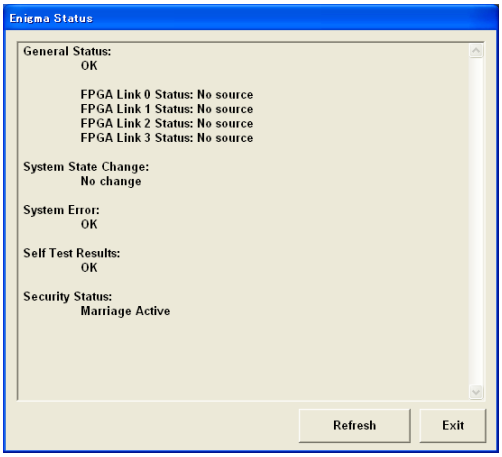
Press the "Current Status" button on the INFO screen (SIB) to display the SIB Status screen. This screen displays detailed information about the SDI input ports (SDI-A, SDI-B, SDI-C, and SDI-D) on the signal input board.



SDI Status	Displays detailed information on the SDI input status. - Carrier Detect - SDT Lock - STD - CRC Error
Error Total	Displays information about the accumulated errors.
Error Frame	This displays error information within one frame.
"Refresh" button	Updates the displayed contents to the newest information.
"Exit" button	Returns to the previous screen.

Enigma Status Screen

Press the "Enigma Status" button on the INFO screen (SIB) to display the SIB Status screen. This screen displays detailed information about Enigma (the security circuit built into the signal input board).



"Refresh" button	Updates the displayed contents to the newest information.
"Exit" button	Returns to the previous screen.

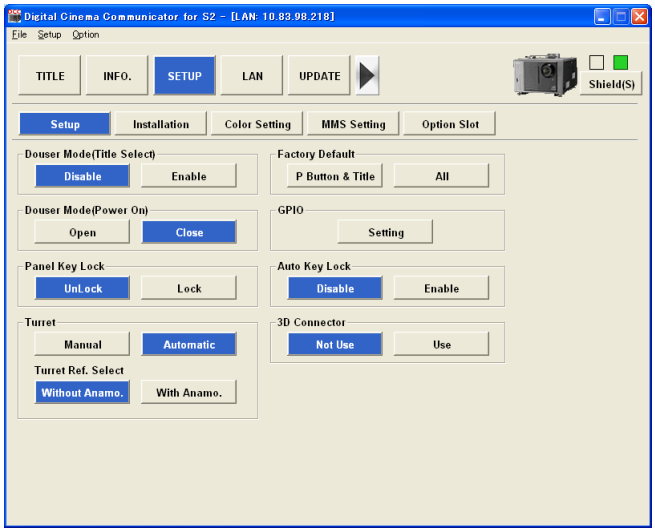
3-9. SETUP Screen

This menu is only available in the Installation or Service mode.
Display and setting are available even when the projector is in the standby status.
Press the "SETUP" button on the menu bar to display the SETUP screen.
The SETUP screen consists of five windows below.

- Setup : Use this window for configuring various settings for the projector. (this page)
- Installation : Use this window for setting at installation. (See page 95)
- Color Setting : Use this window for making color adjustments. (See page 98)
- MMS Setting : Use this window for configuring the MMS connection settings. (See page 99)
- Option Slot : Use this window for setting for slot A or slot B. (See page 100)

3-9-1. SETUP Screen (Setup)

Press the "Setup" button on the "SETUP" screen to display the "SETUP (Setup)" window.
The operating settings of the projector main unit are configured using this screen.



Douser Mode(Title Select)

The douser function is enabled when the signal is changed.

Disable	The lens douser function will be not activated during the switching of signals.
Enable	The lens douser function will be activated during the switching of signals.

Douser Mode(Power On)

Sets the douser status (Open/Close) when the projector is turned on.

Open	Displays the lens douser when the projector is turned on.
Close	Closes the lens douser when the projector is turned on.

Panel Key Lock

The control buttons on your projector are locked to be inoperative.

Unlock	Disable the lock on the control buttons.
Lock	Enable a lock on the control buttons on your projector.

Turret

Controls the turret on which the anamorphic lens is mounted.

Manual	Manually control the turret.
Automatic	The anamorphic lens selected at Title switches automatically when the title is switched.
Turret Ref. Select	Sets the initial setting (use or not use) of the turret. This setting is applied when you create a new title. - Without Anamo: Disables anamorphic lens. - With Anamo: Enables anamorphic lens.

Factory Default

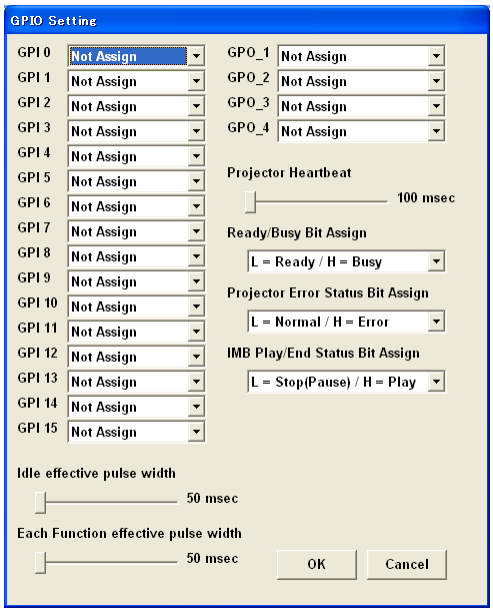
Resets all adjustment and setting values stored to the projector and all registered titles and preset button assignment to the statuses when shipped from the factory.

P Button & Title	Resets the preset button assignment and all registered titles.
All	Resets all data.

GPIO

Press the "Setting" button in the GPIO field of the SETUP screen (Setup) to display the GPIO Setting screen.

You can change the function that is allocated to the GPIO port of the projector, the timing with which GPIO control is executed, etc. from this screen. Refer to the user's manual of the projector for details on the GPIO port.



GPI 0 to GPI 15	Allocates functions to EXT_GPIN1 to EXT_GPIN4. Refer to the following page for details on the correspondence between GPI and EXT_GPIN.
GPO_1 to GPO_4	Allocates functions to EXT_GPOUT1 to EXT_GPOUT4.
Projector Heartbeat	Sets the heartbeat output interval.
Ready/Busy Bit Assign	Configures the logic setting of the Ready/Busy bit of the GPIO control.
Projector Error Status Bit Assign	Configures the logic setting of the error status bit of the projector.
IMB Play/End Status Bit Assign	Configures the logic setting of the bit for confirming the status of media block operation.
Idle effective pulse width	Configures the OFF pulse width that is required before inputting an ON pulse.
Each Function effective pulse width	Configures the pulse width after an ON pulse is input until the GPIO function is executed.
"OK" button	Applies the settings that have been selected.
"Cancel" button	Cancels the settings and returns to the previous screen.

The correspondence between GPI 0 to GPI 15 and EXT_GPIN is shown in the following table.

	EXT_GPIN4 (Pin No. 8-27)	EXT_GPIN3 (Pin No. 7-26)	EXT_GPIN2 (Pin No. 6-25)	EXT_GPIN1 (Pin No. 5-24)
GPI 0	OFF	OFF	OFF	OFF
GPI 1	OFF	OFF	OFF	ON
GPI 2	OFF	OFF	ON	OFF
GPI 3	OFF	OFF	ON	ON
GPI 4	OFF	ON	OFF	OFF
GPI 5	OFF	ON	OFF	ON
GPI 6	OFF	ON	ON	OFF
GPI 7	OFF	ON	ON	ON
GPI 8	ON	OFF	OFF	OFF
GPI 9	ON	OFF	OFF	ON
GPI 10	ON	OFF	ON	OFF
GPI 11	ON	OFF	ON	ON
GPI 12	ON	ON	OFF	OFF
GPI 13	ON	ON	OFF	ON
GPI 14	ON	ON	ON	OFF
GPI 15	ON	ON	ON	ON

Auto Key Lock

Automatically locks the control buttons on your projector so that they cannot be used. When the auto key lock function is enabled, the key lock is set under the following conditions.

- When the projector enters the standby state, the key lock is activated.
- When no operations are performed on the control panel of the projector main unit for 30 seconds or more, the key lock is activated.

If you press the KEY LOCK button on the projector for one second or longer, the key lock is cleared, but the key lock is automatically locked applied again if the key lock conditions are satisfied.

Disable	Disables the auto key lock function.
Enable	Enables the auto key lock function.

3D Connector

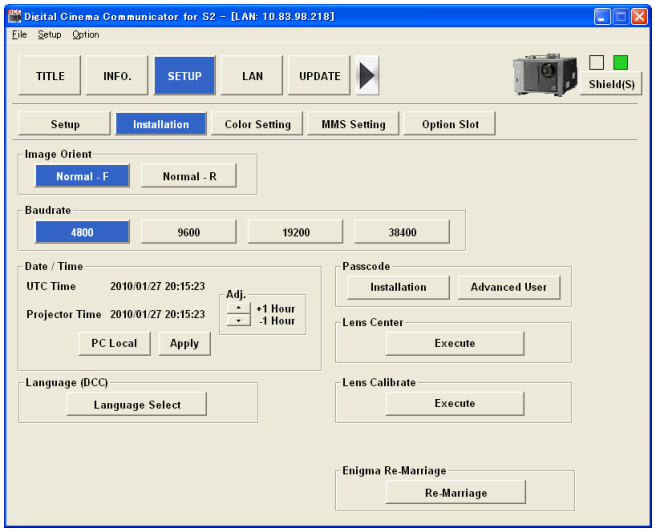
Selects the port for 3D video systems used as the control signal input/output for the 3D video system.

If you select "Not Use", the GP I/O port is used as the control signal input/output for the 3D video system.

Not Use	Does not use the 3D port as the control signal input/output for the 3D video system (uses the GP I/O port).
Use	Uses the 3D port as the control signal input/output for the 3D video system.

3-9-2. SETUP Screen (Installation)

Press the "Installation" button on the SETUP screen to display the SETUP screen (Installation). The SETUP screen (Installation) is used to configure the settings required when the projector is installed, change the passcodes, adjust the lens center, calibrate the lens, and perform re-marriage.



Baudrate

To select the transmission speed (bps) for your projector (SYSTEM) and a PC when they are connected by a commercially available RS-232C straight cable. Select one from 4800, 9600, 19200 and 38400. Select the transfer speed corresponding to the speed of the connected devices.

Date/Time

Use this to set the date and time on the projector.

The internal clock in the projector operates on coordinated universal time (UTC). You can set the internal projector time to the time in your region by setting the time difference between the standard time in your region and UTC.

UTC Time	Displays the universal coordinated time.
Projector Time	Displays the date and time of the projector main unit.
Adj.	Adjusts the projector time in units of one hour. ▲: Adds one hour. ▼: Subtracts one hour.
"PC Local" button	Sets the projector time to the time on the PC.
"Apply" button	Updates it in the changed Date/Time.

Language (DCC)

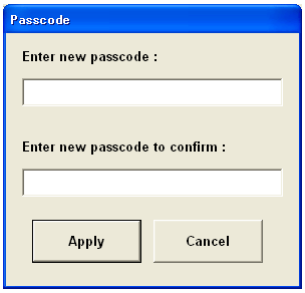
Select a language that is displayed on the menu. The menu language of this software(DCC) is switched (Only the English language is supported as the menu language of the projector main unit).

English	Displays in English.
中文	Displays in Chinese (simplified characters).
"OK" button	Changes the language selected as the language to display in the DCC menus.
"Cancel" button	Abandons the settings and returns to the previous screen.

Passcode

Use this to change the pass code of the Installation mode or the Advanced User mode.

- Enter new passcode: Input new pass code.
- Enter new passcode to confirm: Input new pass code to confirm.



Enter new passcode	Input new pass code.
Enter new passcode to confirm	Input new pass code to confirm.
"Apply" button	The new passcode is activated.
"Cancel" button	Abandons the settings and returns to the previous screen.

Lens Center

Press the "Execute" button to move the lens shift position to the center. The center position may slightly shift depending upon mounting conditions of the lens.

Lens Calibrate

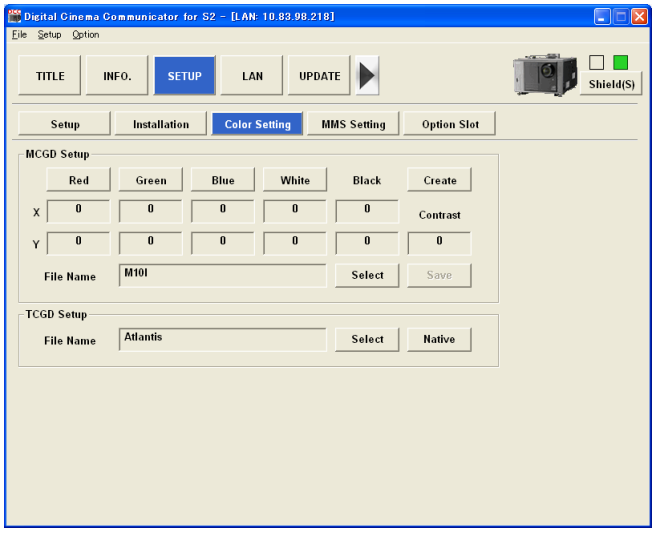
Calibrate Zoom and the Focus lens (support by the NC2000/1200 Series only).
Execute this function whenever replacing the lens.

Enigma Re-Marriage

This menu can only be used when the projector is turned on.
If the marriage has been cleared, it can be reconfigured by performing re-marriage.
Press the "Re-Marriage" button to display the login window. Enter your ID and password to reconfigure the marriage. Please ask the service personnel for the ID and password.

3-9-3. SETUP Screen (Color Setting)

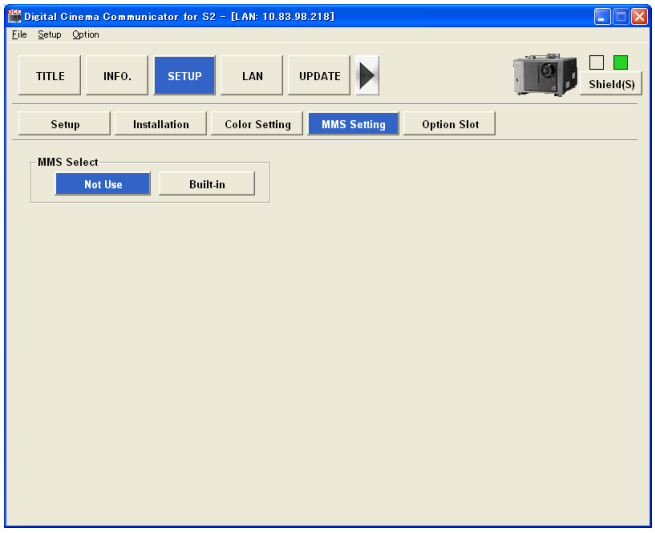
This screen can only be configured when the projector is turned on.
Press the "Color Setting" button on the SETUP screen to display the SETUP screen (Color Setting). This screen is used to adjust the colors. For details of the settings, see "2-2. Adjusting Colors" (See page. 16).



MCGD Setup		Used for the MCGD settings.
	"Create" button	Start creating the MCGD data. Upon input completion, press the [Save] button to save the settings.
	"Select" button	Used to call an existing MCGD file. (See page XX)
TCGD Setup		Set a target color (TCGD). In Pospro mode, the TCGD Setup screen is displayed. On the TCGD Setup screen, more detail target color (TCGD) setup is enabled.
	"Native" button	Used for the Native color.
	"Select" button	Used to call an existing TCGD file. (See page XX)

3-9-4. SETUP Screen (MMS Setting)

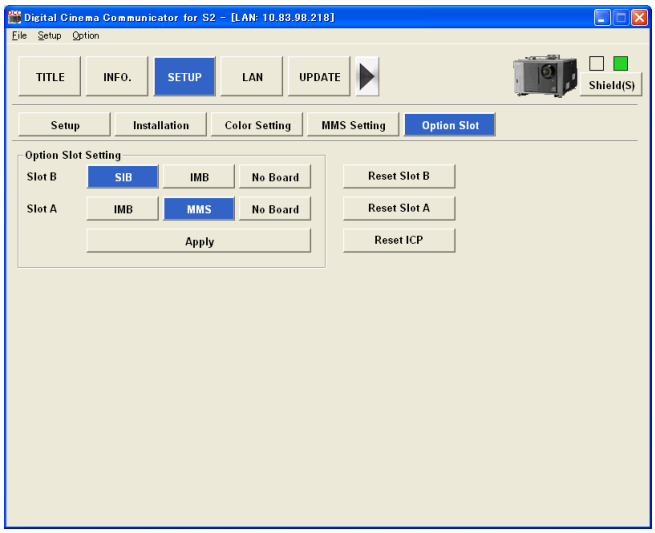
Press the "MMS Setting" button on the SETUP screen to display the SETUP screen (MMS Setting).



MMS Select		Select the "Built-in" when you use an optional multimedia switcher (MMS).
	"Not Use" button	Not to use MMS.
	"Built-in" button	To use the incorporated MMS (optional).

3-9-5. SETUP Screen (Option Slot)

Press the "Option Slot" button on the SETUP screen to display SETUP screen (Option Slot). This screen configures the devices installed in slot A and slot B.

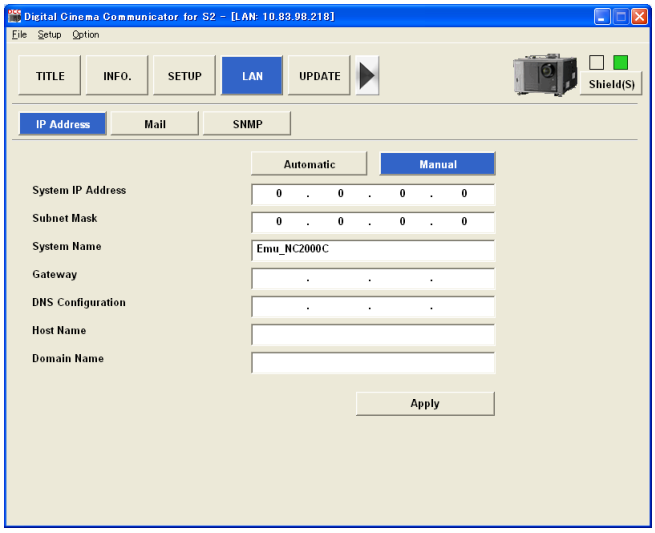


Option Status		Configures the devices mounted in slot A and slot B.
	Slot B	Selects the devices mounted in slot B.
	Slot A	Selects the devices mounted in slot A.
	"Apply" button	Applies the settings that have been selected.
"Reset Slot B" button		Resets slot B in an emergency. You should not normally use this. This cannot be used when the projector main unit is in the standby state.
"Reset Slot A" button		Resets slot A in an emergency. You should not normally use this. This cannot be used when the projector main unit is in the standby state.
"Reset Slot ICP" button		Resets the ICP board in an emergency. You should not normally use this. This cannot be used when the projector main unit is in the standby state.

3-10. LAN Screen

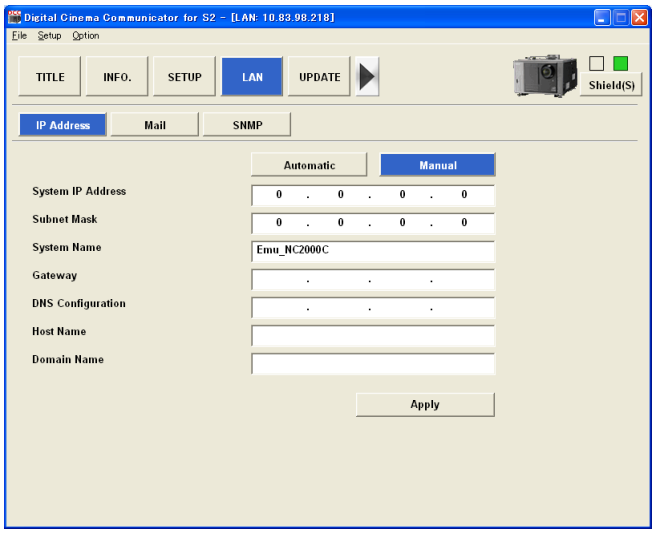
This menu is only available in the Installation or Service mode.
Display and setting are available even when the projector is in the standby status.
Press the “LAN” on the menu bar to display the LAN Screen.
The "LAN" screen consists of three windows below.

- IP Address : Used when making LAN settings of SYSTEM. (See next page)
- Mail : Used to set up mail function.
- SNMP : Used to set up SNMP.



3-10-1. LAN Screen (IP Address)

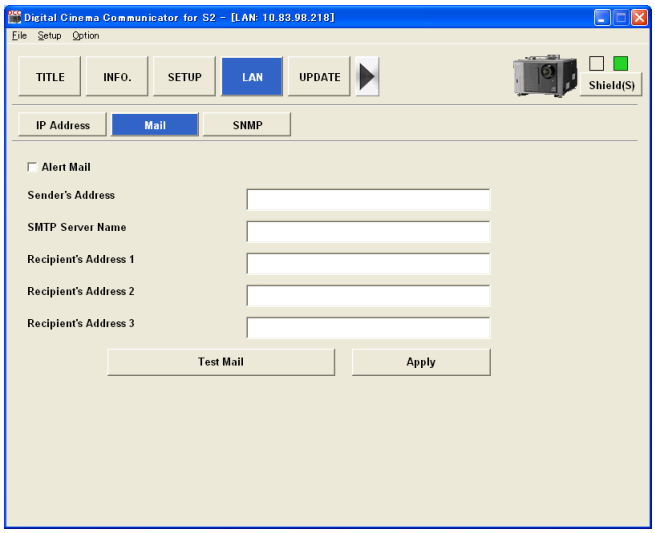
Press the "IP Address" button on the LAN screen to display the LAN (IP address) screen. This screen is used to configure the IP address of the projector main unit.



Automatic/Manual	Select Automatic if IP address is automatically assigned by a DHCP server through the network connected to your projector. If not, select Manual. In this case, you must make entries in the IP Address and Subnet Mask fields. Automatic --- IP address, subnet mask and gateway are automatically assigned by a DHCP server. Manual --- IP address, subnet mask, etc. are assigned by the network administrator. Entries are required.
System IP Address	Set/display the IP address of the projector main unit.
Subnet Mask	Set/display the subnet mask number.
System Name	To display/set the identification name of the system board on the network
Gateway	Set/display the default gateway of the network connected to the Projector.
DNS Configuration	Type in the IP address of DNS server on the network connected to the Projector.
Host Name	To display/set the identification name of the projector main unit on the network
Domain Name	Type in domain name of the network connected to the Projector.
"Apply" button	Used to apply the entered settings.

3-10-2. LAN Screen (Mail)

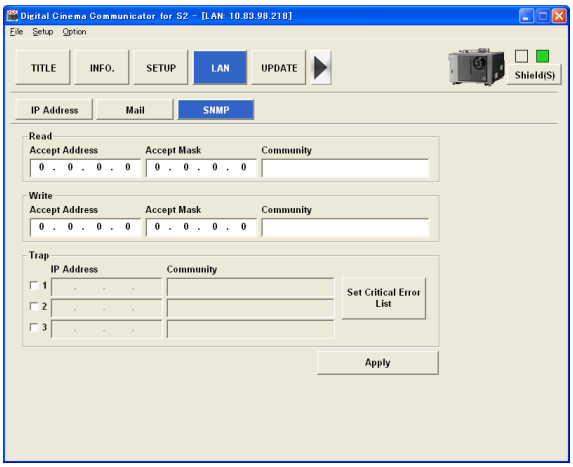
Press the "Mail" button on the LAN screen to display the LAN (Mail) screen.
This screen is used to configure the settings for sending projector status notifications by email.



Alert Mail	This option notifies your computer of an error message via email when using wireless or wired LAN. - Check On: To enable the mail notification function - Check off: To disable the mail notification function
Sender's Address	Enter the sender's address for the email from your projector. This address is for "From:" of the email.
SMTP Server Name	Set the SMTP server of the network to which the projector is connected.
Recipient's Address 1 Recipient's Address 2 Recipient's Address 3	Enter the recipient's address for the email from your projector. You can set up to 3 recipient's addresses. This address is for "To:" of the email.
"Test Mail" button	Click on this button to check the email data you have entered above.
"Apply" button	Change contents are updated.

3-10-3. LAN Screen (SNMP)

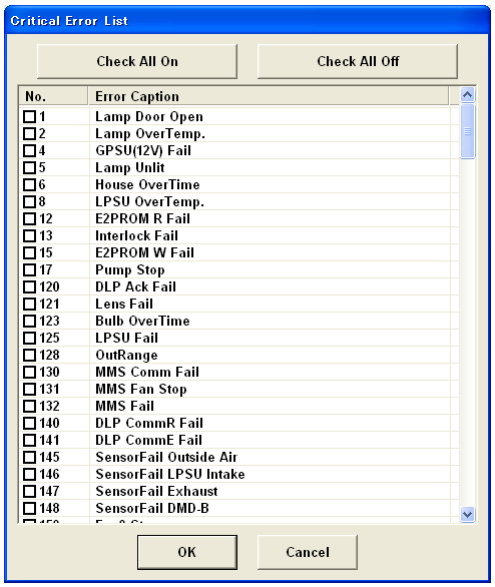
Press the "SNMP" button on the LAN screen to display the LAN (SNMP) screen.
This screen is used to configure Simple Network Management Protocol (SNMP) settings.



Read	Sets the IP address and the community name used for reading from the SNMP manager.
Write	Sets the IP address and the community name used for writing from the SNMP manager.
Trap	Sets the IP address and the community name of the Trap destination. You can specify 3 Trap destinations at most. - With check mark : To send Trap to the destination specified in the right space - Without check mark : Not to send Trap to the destination specified in the right space
Set Critical Error List	Sets the details of errors that send a trap. (See page XX)
"Apply" button	Change contents are updated.

Critical Error List Screen

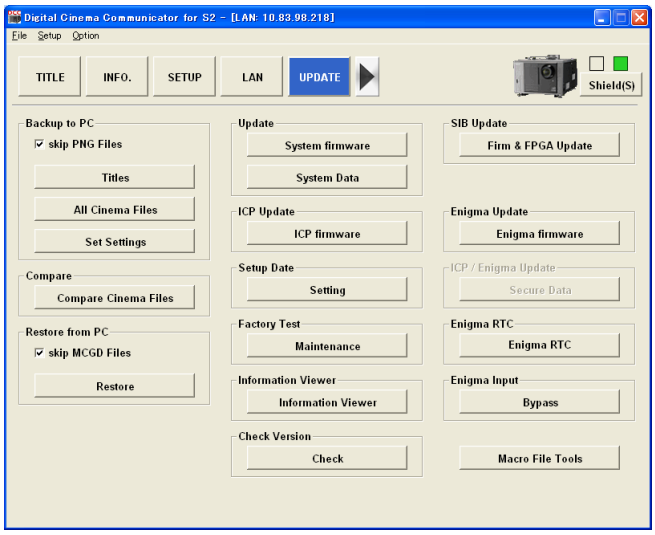
Press the "Set Critical Error List" button on the LAN screen (SNMP) to display the Critical Error List screen. You can configure the error details that send an SNMP trap by using this screen. If an error that has the check box is selected occurs, an SNMP trap (trap number 2) is sent. The default setting is for all of the check boxes to be cleared.



"Check All On" button	Selects all of the items.
"Check All Off" button	Clears all of the items.
"OK" button	Confirms the settings.
"Cancel" button	Cancels the settings and returns to the previous screen.

3-11. UPDATE Screen

This menu can be used in Service mode only. This menu can be displayed/set even if the projector main unit is in standby state.
When the "UPDATE" button in the menu bar is pressed, the UPDATE screen is displayed.



Backup to PC		Saves the Cinema file that is registered in this device in the PC.
	skip PNG Files	Check on this option when omitting backup of the PNG file.
	"Titles" button	Backs up the information for the 100 titles registered in the projector main unit and the files saved on the ICP board to a pre-specified folder. The index file that can be used by Restore is generated. Information on the lens memory and lamp memory is not saved.
	"All Cinema Files" button	Backs up all the files of the ICP board. At the same time, an Index file such as a batch file is generated. The index file that can be used by Restore is generated.
	"Set Settings" button	Backs up user setting information to a pre-specified folder. The index file that can be used by Restore is generated.
Compare		Compares the cinema files on the ICP board registered in the projector with the cinema files backed up in the specified folder. (See page 109)
	"Compare Cinema File" button	The cinema files on the ICP board are compared to the cinema files backed up in the specified folder using the file names and timestamps of the files, and the result is displayed in the Compare screen.
Restore from PC		Restores the title information registered in the projector main unit, the cinema files in the ICP board, and the user settings information that was saved using Backup to PC.
	skip MCGD Files	Check on this option when omitting restoration of the MCGD file. Since some MCGD files are large, restoration requires a long time.
	"Restore" button	Reads the selected Index file and executes a restore.
Update		Writes the firmware and data of the NC projector in this device. (See page 115)
	"System Firmware" button	Executes updating of the firmware of the CPU board.
	"System Data" button	Executes updating of the system data of the CPU board.
ICP Update		Writes the firmware of the ICP board. (See page XX)
	"ICP firmware" button	Executes updating of the IPC board.
Setup Date		Configures the date when the projector was set up (starting date of the warranty period).
	"Setting" button	Configures the date when the projector was set up. This is used to copy from the backup information when new settings are created or boards are replaced.
Factory Test		Executes the inspection function that is used at the factory. You cannot normally use this.
	"Maintenance" button	Executes the inspection function. You cannot normally use this.

Information Viewer		Checks the log file that was saved using "Save Information". (See page 111)
	"Information Viewer" button	Starts the Information Viewer.
Check Version		Checks whether or not the versions of the CPU board, ICP board, signal input board, and Enigma on the projector main unit match the specified versions. (See page 113)
	"Check" button	Executes a check of the version information.
SIB Update		Writes the firmware and FPGA of the signal input board. (See page 115)
	"Firm & FPGA Update" button	Executes updating of the signal input board.
Enigma Update		Writes the firmware of the Enigma. (See page 115)
	"Enigma firmware" button	Executes updating of the Enigma.
ICP/Enigma Update		Updates the Secure Data in the ICP board and Enigma. (See page 115)
	"Secure Data" button	Executes updating of the secure data of the ICP board and the Enigma.
Enigma RTC		This can only be used when the projector is turned on. Sets the internal clock of Enigma.
	"Enigma RTC" button	The internal clock of Enigma is set to the date and time of the PC.
Enigma Input		This can only be used when the projector is turned on. Temporarily disables the security circuit of the SDI input port of the signal input board (for debugging). This is cleared if any of the following conditions are met. - A title is selected - The projector is turned off - SIB Reset is performed
	"Bypass" button	Disables the security circuit of the SDI input port of the signal input board.
"Macro File Tools" button		Starts the Macro File Tool. The Macro File Tool is used to confirm that the cinema files used by the titles registered in the projector main unit exist. Refer to the Service Manual for details.

3-11-1. Backing Up and Restoring Setting Information

You can backup the cinema file, title information, and projector setting information to a PC by using Backup to PC on the UPDATE screen. Setting information that has been backed up can be restored by using Restore from PC on the UPDATE screen.

Format of Index file names

The format of the Index file names that are automatically generated during a backup is as follows.

<Projector model name> + <Main unit firmware version> + <Backup type>.txt

Example: If the title information is backed up on an NC2000 series with firmware version 012345, an Index file named "nc20bk012345idxT.txt" is created.

Projector model names	NC1200 Series : nc12bk NC2000 Series : nc20bk NC3200 Series : nc32bk
Backup types	Titles : idxT All Cinema Files : idxC Set Settings : idxS

Files and Setting Information that is Backed Up

Title information (Titles)	Backs up the title information that is registered in the projector and the Cinema files that are needed in order to display the titles.
Cinema file (All Cinema Files)	Files with the following file extensions that are saved on the ICP board are backed up (You can select whether or not to include PNG files in the backup). .MACRO/.PCF/.MCGD/.SCREEN/.SOURCE/.3D/.PNG
Setting information (Set Settings)	Backs up the user setting information (ncuser.bin).

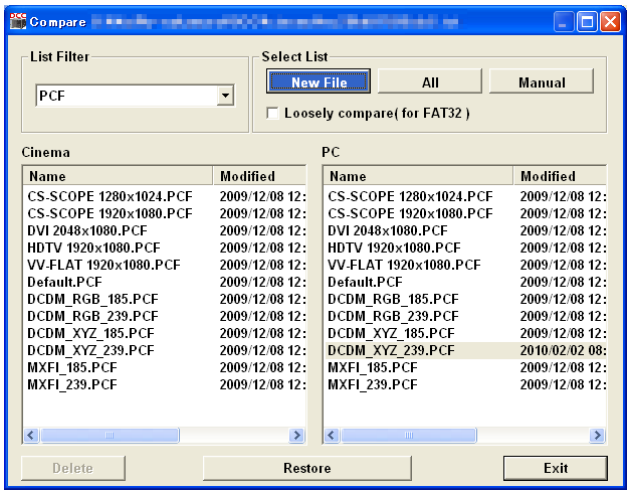
States Where Backup and Restore can be Performed

The projector states where backup and restore can be performed are shown in the following table.

	Backup	Restore
Title information (Title: idxT)	Turned on state	
Cinema file (All Cinema Files: idxC)	Turned on state	
Setting information (Set Settings: idxS)	Standby state and power-on state	Standby state

3-11-2. Comparing Cinema Files

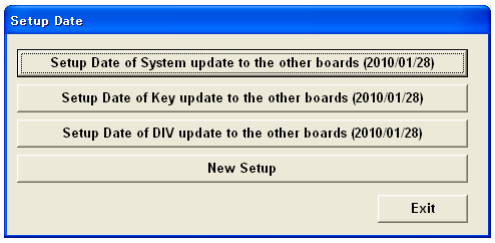
Press the "Compare Cinema Files" button on the UPDATE screen to display the file selection screen. When you select the Index file created when the cinema files being compared were backed up, the Compare screen is displayed.
The cinema files on the ICP board registered in the projector are compared with the cinema files backed up in the specified folder by using this screen. Timestamps are used to compare the files.
Cinema file comparisons can only by used when the projector is turned on.



List Filter		Displays only files with the selected file extension.
Select List		Configures how files are selected on the PC.
	"New File" button	Executes a cinema file comparison and selects all of the files where the timestamp is different.
	"All" button	Selects all of the files on the PC.
	"Manual" button	Allows you to select the files on the PC manually.
	Loosely compare(for FAT32)	When this checkbox is selected, differences in the seconds part of the timestamps are ignored.
"Delete" button		Deletes the selected files from the projector.
"Restore" button		Transfers the files selected on the PC to the projector.
"Exit" button		Closes the Compare windows.

3-11-3. Setting the Setup Date of the Projector

Press the "Setting" button in the Setup Date field of the UPDATE screen to display the Setup Date window.
This screen is used to set the setup date (warrantee start date) of the projector. The projector setup date data is saved in three locations (CPU board, Key board, DIV board). If any of this data is lost, the record of the setup date can be restored from the remaining data. Always set the setup date to the same date.

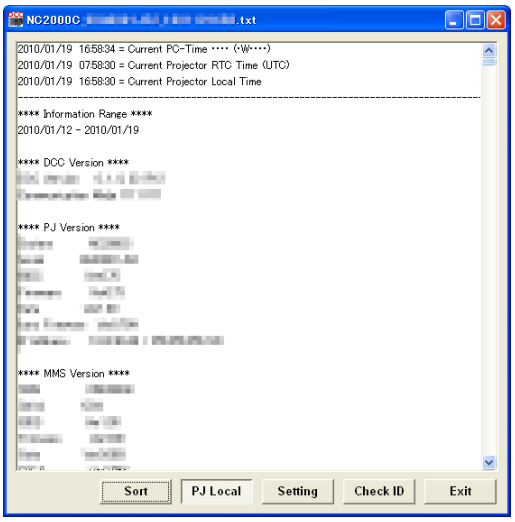

Setup Date
Setup Date of System update to the other boards (2010/01/28)
Setup Date of Key update to the other boards (2010/01/28)
Setup Date of DIV update to the other boards (2010/01/28)
New Setup
Exit

"Setup Date of System update to the other boards" button	Restores the setup date on the CPU board. This is used when the CPU board is repaired or replaced.
"Setup Date of Key update to the other boards" button	Restores the setup date on the Key board. This is used when the Key board is repaired or replaced.
"Setup Date of DIV update to the other boards" button	Restores the setup date on the DIV board. This is used when the DIV board is repaired or replaced.
"New Setup" button	This is used to newly set the setup date. This sets the setup date on the CPU board, Key board, and DIV board to the current date. Do not use this except when installing the projector.
"Exit" button	Closes the Setup Date window.

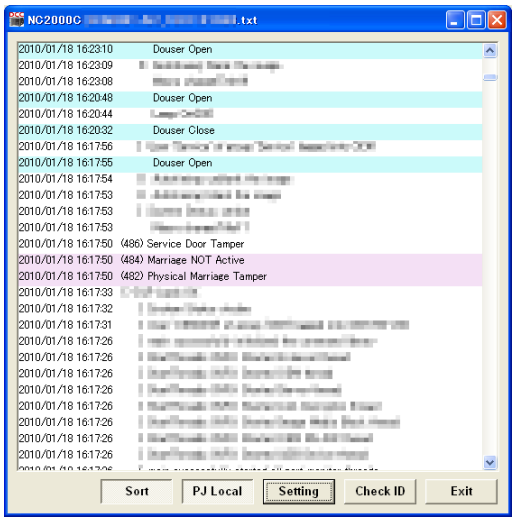
3-11-4. Checking Log Files Using the Information Viewer

Press the "Information Viewer" button in the UPDATE screen to display the file selection screen. When you select a log file, the log is displayed in the Information Viewer. In the Information Viewer, you can use the following functions to easily check the log files.

- Sort and display logs in time order
- Switch the time in the logs between UTC and projector main unit time
- Highlight rows that contain specified keywords
- Check that log files have not been forged



State immediately after starting Information Viewer

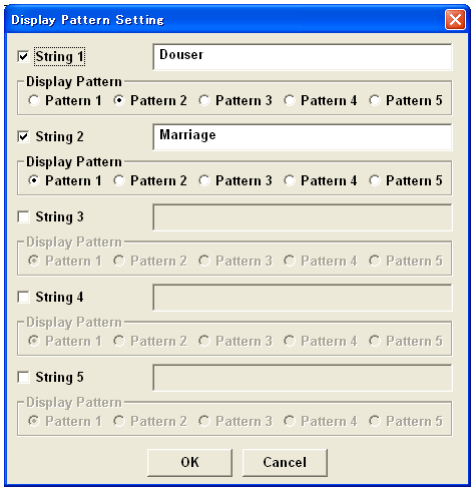


State with log sorting and highlighted display active

"Sort" button	Press this button to sort the logs in time order. Press the button again to return to the original display.
"PJ Local" button	When this button is pressed, the dates and times in the logs are displayed using the date and time of the projector. When the button is not pressed, the dates and times in the log are displayed in UTC.
"Setting" button	Displays the Display Pattern Setting screen. (See page 112) This is used to set the keywords for displaying rows highlighted.
"Check ID" button	Allows you to check that the log files have not been forged. If the logs have not been forged: "This file is trusted." If it is possible that the logs have been forged: "There is a possibility that this file is falsified."
"Exit" button	Exits the Information Viewer.

Display Pattern Setting Screen

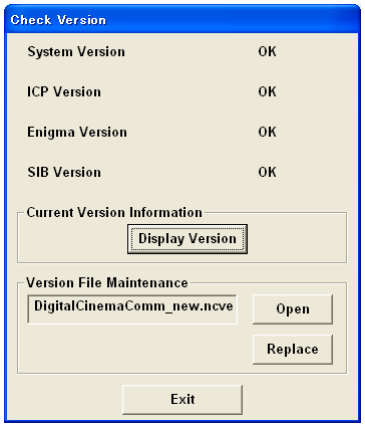
This screen is used to select the keywords and display pattern for displaying highlights in the logs.



String 1 to String 5	When the checkbox is selected, you can set the keyword and highlight display pattern. Keywords are case sensitive.
Display Pattern	Selects the pattern for displaying rows highlighted.
"OK" button	Displays the logs highlighted according to the configured settings.
"Cancel" button	Abandons the settings and returns to the Information Viewer.

3-11-5. Checking the Version Information

Press the "Check" button in the Check Version field of the UPDATE screen to display the Check Version window.
You can check whether the version information of the CPU board, ICP board, signal input board, and Enigma of the projector main unit matches the version information defined in a Version File.



System Version ICP Version Enigma Version SIB Version		Displays the result of comparing the projector main unit version information with the DCC definition file. OK: The versions match. Different: There are differences. If the result is Different, it is possible that the Version File is not up to date. Use the most recent Version File to perform the check again.
Current Version Information		Displays the current version information of the CPU board, ICP board, signal input board, and Enigma.
	"Display Version" button	Displays the Display Version screen. Allows you to check the current version information of the CPU board, ICP board, signal input board, and Enigma.
Version File Maintenance		Displays the definition file (*.ncversion) that is read by DCC.
	"Open" button	Temporarily uses the selected definition file as the DCC definition file.
	"Replace" button	Replaces the DCC definition file with the selected file.
"Exit" button		Closes the Check Version window.

Changing the Version File

If "Different" is displayed as the result of the check, it is possible that the Version File that is referenced by DCC is not up to date. If this happens, use the most recent Version File to perform the check again. There are two different methods for changing the Version File as described below.

Using a Version File Temporarily

You can perform a check using a designated Version File by pressing the "Open" button in Version File Maintenance and specifying a Version File. If you do this, the specified Version File is only used for performing the check again and the Version File used by DCC to check the version information is not changed.

Changing the Version File

Press the "Replace" button in Version File Maintenance and specify the Version File to replace the Version File used to check the version information of the DCC with the specified file. When the Check Version screen is next displayed, the DCC reads the updated Version File and executes a check.

3-11-6. Updating the Firmware

Preparation:

- Obtain the latest firmware and store it in the local drive of the personal computer.
- Turn off the power of the projector and set the device to a standby state.
- Display the UPDATE screen.

[1] Click the button of update to use in the UPDATE screen.

The buttons of the updates that are used are shown in the following table.

CPU board		System Firmware	Update "System firmware" button
		System Data	Update "System Data" button
ICP board		Firmware	ICP Update "ICP firmware" button
Signal input board		Firmware & FPGA	SIB Update "Firm & FPGA Update" button
	Enigma	Firmware	Enigma Update "Enigma firmware" button
ICP board/Enigma		Secure Data	ICP/Enigma Update "Secure Data" button

[2] Select the appropriate file from the folder where files that are used for updates are saved.

A progress bar is displayed and firmware updating starts. The following message is displayed on the screen when the update is complete.

CPU board		System Firmware	"System firmware update complete."
		System Data	
ICP board		Firmware	"Update Release <version no.> was successful."
Signal input board		Firmware & FPGA	"Update Result: Success"
	Enigma	Firmware	"Update Result: Success"
ICP board/Enigma		Secure Data	

[3] Click the "Exit" button.

[4] Turn on the power of the projector.

3-11-7. Macro File Tools

Starts the Macro File Tool. The Macro File Tool is used to confirm that the cinema files used by the titles registered in the projector main unit exist. Refer to the Service Manual for details.

4.

Menu Functions [For MMS Operation]

This chapter describes the menu functions of multimedia switcher (MMS) operation.
See "3. Menu functions [For Projector Operation]" (Page 46) for the projector operation menus.

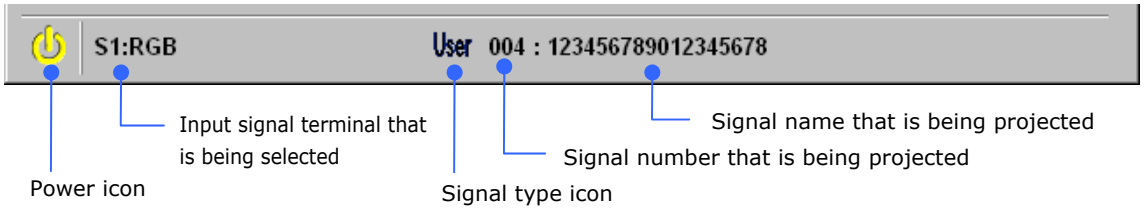
4-1-1. Menu Bar Explanation

File menu
- Exit : To exit this program.

Setup menu
- Communication Settings :To execute settings for communications.

Option menu
- Always on Top :Displays the menu screen in front of other windows.

4-1-2. Status Bar Explanation



Icon Explanation

• Power icon

	Indicates that the power of the switcher is ON.
	Indicates that the power of the switcher is OFF.

• Signal type icon

	Indicates that the image is projected using the signal adjustment values of the default signal list.
	Indicates that the image is projected using the signal list that has been set and registered by the user.

4-2. Table of adjustment menus

Menus in parentheses are those for our service personnel.
Menus with (*) are those planned to be supported in future. We are planning to support them one by one with software upgrading.

Menu	Submenu			Description	Ref. page
START	Power On/Off			[Available on MM2000 only] Use this to turn On/Off (standby status) the switcher.	113
	MODE			To change the menu mode.	
SOURCE	Input Terminal			To select the input terminal.	114
	Test Pattern (*)			This is a function for the output inspection.	
	Entry List			Use this function to display and edit the list of the signals registered to the switcher.	
	Default List (*)			Use this to display the list of signals registered to the switcher in default setting.	
ADJUST	Picture	Brightness		Adjusts the brightness level or the back raster intensity.	126
		Contrast		Adjusts the intensity of the image according to the incoming signal.	
		Color		Increases or decreases the color saturation level.	
		Hue		Varies the color level from +/- green to +/-blue. The red level is used as reference.	
		Sharpness		Controls the detail of the image.	
	Input Settings	Page 1 of 5	Input Position	To adjust the taking start position for the input video images.	
			Input Resolution	To adjust the input signal resolution.	
		Page 2 of 5	Setup Level	"7.5 IRE" must be chosen to project products manufactured in USA.	
		Page 3 of 5	Pixel Adjust	To adjust the phase shift of RGB signal pixels .	
			Clamp Timing	To adjust the fixing position of the black level for RGB signal.	
			Signal Type	To switch between signal formats (RGB and component).	
		Page 4 of 5	Sync Protection	To adjust the inclination of copy-guard video image.	
			VD Delay	To adjust the screen disturbance.	
	Input Settings	Page 5 of 5	Y/C Delay	Adjusts Y/C delay level.	
			3D Y/C Separation	To set the 3 dimension separation feature.	
			Video Filter	To reduce graininess and jitter.	
	Resize	Page 1 of 2	Resolution	To set enlarging or reduction for the output resolution.	
			Aspect Ratio	To select the aspect ratio of the input signal.	
			Overscan	To set the overscan ratio.	
		Page 2 of 2	(Zoom)	To adjust the vertical and horizontal enlarge ratios.	
			Anamorphic Factor	To adjust the horizontal reduction magnification of the input video image.	
ADJUST	Options	Page 1 of 3	Noise Reduction	To reduce noise.	
			Select Color Matrix	To select the color matrix.	
			Contrast Enhancement	For a function to improve the contrast.	
		Page 2 of 3	Blanking	To adjust the display range at the top, bottom, left and right ends.	
		Page 3 of 3	Signal Level	To adjust the input level of each signal.	
			(Synchronize)	To select the form of the output signal.	

Menu	Submenu			Description	Ref. page
			(De-Interlacing)	To set the de-interlacing mode for input of the interlace signal.	
SETUP	Page 1 of 3	Background		To display a black screen or logo when no signal is available.	149
		Factory Default		To reset the adjusted values to those at the shipment from the factory.	
		Sync Termination(RGB)		To select the impedance of RGB input terminal.	
	Page 2 of 3	Auto Adjust		To set whether the display position and pixel shift are automatically adjusted.	
		Communication Speed		To set the serial communications of the switcher. Do not use this function usually.	
		Output Timing		To select the form of the output signal.	
		(Output Resolution)		To select the display resolution.	
	Page 3 of 3	Keystone (*)		To adjust the keystone correction.	
		Auto White		To automatically adjust the input level of the RGB input signal.	
LAN	IP Address			To set the IP address of the switcher. [Available on MM2000 only]	153
	Network Type			To set the communication mode for use of wireless LAN. [Available on MM2000 only]	
	WEP			To set the WEP (encryption) for use of wireless LAN. [Available on MM2000 only]	
	Mail			To set the mail notification function. [Available on MM2000 only]	
	DHCP			To set the DHCP server. [Available on MM2000 only]	
	Status			To display the network status of the switcher. [Available on MM2000 only]	
Info.	Source Info.			To display the information of the input signal.	160
	MMS Info.			To check the version information of firmware or the like.	

4-2-1. Using the Service Personnel Menu (Mode switching)

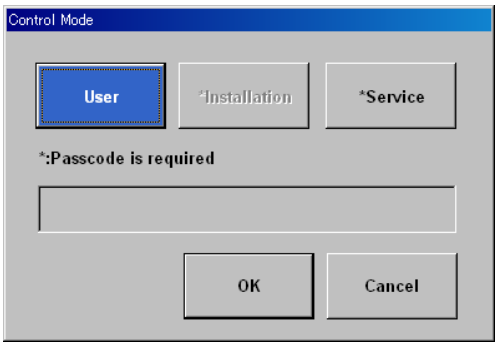
In order to use the menus for service personnel, it is necessary to switch the control mode to [Service]. The procedure to switch the control mode to [Service] is explained below.

[1] Press the "MODE" button from the "START" menu screen.

When the START screen is not displayed, display the START screen by pressing the "START" button on the menu bar.

[2] Press the "MODE" button.

The "Control Mode" screen appears.



[3] Select [Service] and input the passcode and press [OK].

When the device is set to a Service mode, [MODE(S)] is displayed by the "MODE" button on the START screen and [Shield(S)] is displayed by the "Shield" button on the menu bar.

4-3. START Screen

When software is activated and the "START" button on the menu bar is pressed, the START screen is displayed.
On the START screen, you can turn On/Off (standby state) the power of the MM2000 and change the user mode.

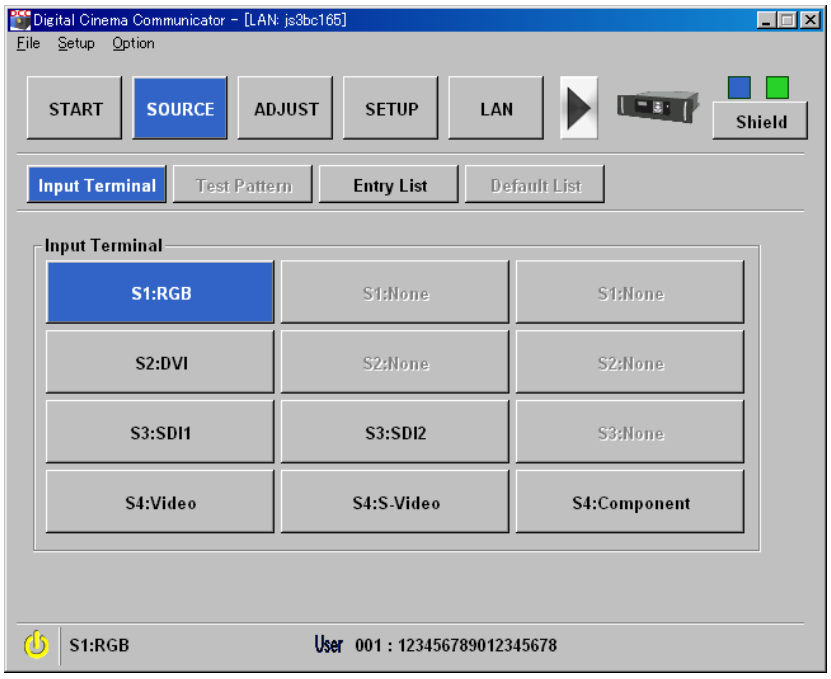
● **Power**

To turn On/Off (standby status) the switcher .

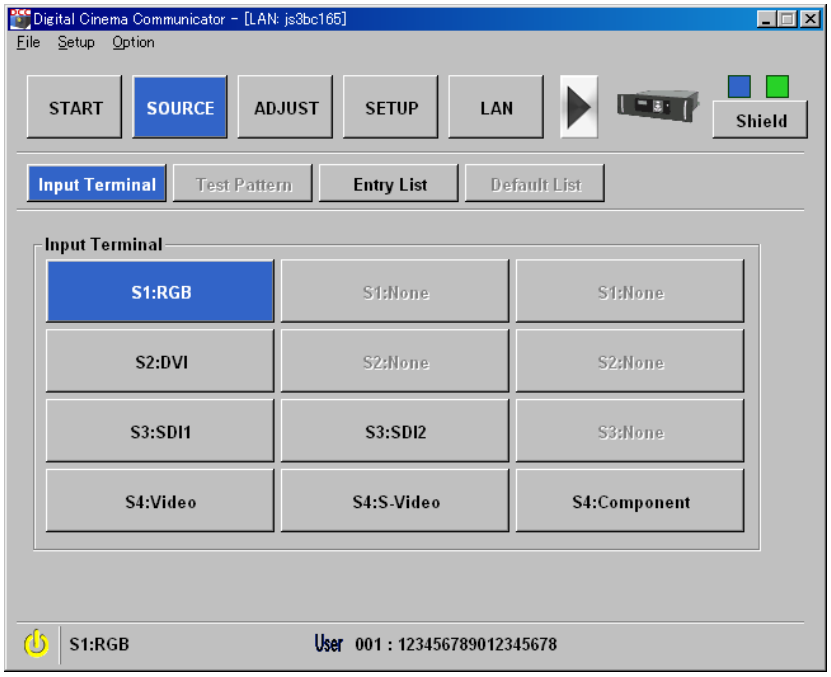
4-4. SOURCE Screen

When the "SOURCE" button on the menu bar is pressed, the SOURCE screen is displayed.
On the SOURCE screen, you can select an input terminal.
The SOURCE screen comprises the following four screens.

- Input Terminal : Selects an input terminal used for projection.
- Test Pattern : Outputs test pattern.
- Entry List : This screen registers in the switcher memory the adjustment values of the signals that are being projected as the signal list. The signal list that has been registered in the switcher is displayed/set.
- Default List : Displays a list at switcher shipment.



4-4-1. Input Terminal



Use this menu to select the input terminal for projection. The currently selected input terminal has the button name displayed in red.
S1 to S4 are for Slot 1 to Slot 4 in the back view below.

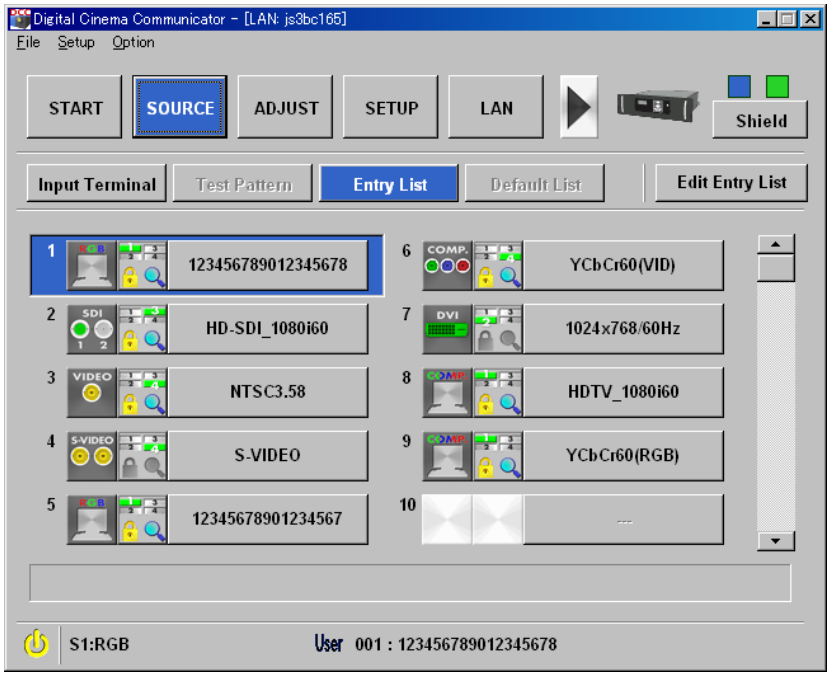
Slot 1	Slot 3
Slot 2	Slot 4

If any signal is not input, nothing is displayed in the screen (Black when shipped from the factory). The signal input information can be displayed by "Source Information"

4-4-2. Test Pattern

Use this to output the test pattern. While the test pattern is displayed, adjustments are not available.

4-4-3. Entry List



If the adjustment values of the signals that are being projected are changed, the values are registered in the Entry List as the signal list automatically.

- Switching of the input terminal
- Change of the signal input to the switcher

You can call the registered signal (its adjusted value) from the Entry List when required.

Icon Explanation

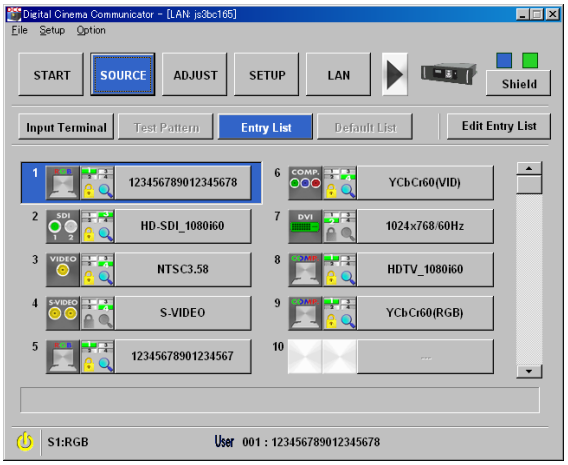
Indicates the input terminals and the signal types.

	RGB input terminal of MM-RGB interface board		Component input terminal of MM-RGB interface board
	SDI 1 input terminal of MM-SDI interface board		CVBS input terminal of MM-VIDEO interface board
	SDI 2 input terminal of MM-SDI interface board		S-VIDEO input terminal of MM-VIDEO interface board
	DVI input terminal of MM-DVI interface board		Component input terminal of MM-VIDEO interface board
	Blank		

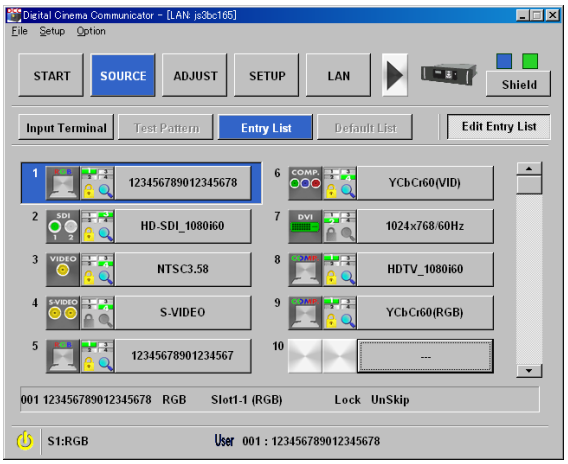
	Indicates the signal of slot 1.		(Lock on) Indicates that the signal is locked. Signals cannot be edited/deleted.
	Indicates the signal of slot 2.		(Lock off) Indicates that the signal is not locked. Signals can be edited/deleted.
	Indicates the signal of slot 3.		(Skip off) When a signal is detected, it is not skipped.
	Indicates the signal of slot 4.		(Skip on) When a signal is detected, it is skipped.

Storing the projected signal (Store)

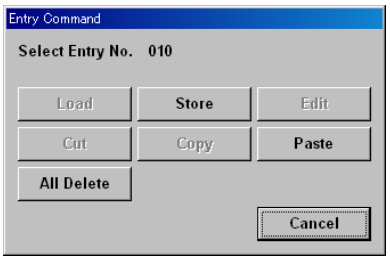
[1] Press the "Edit Entry List" button.



[2] Press the number to be registered in Edit Entry List.

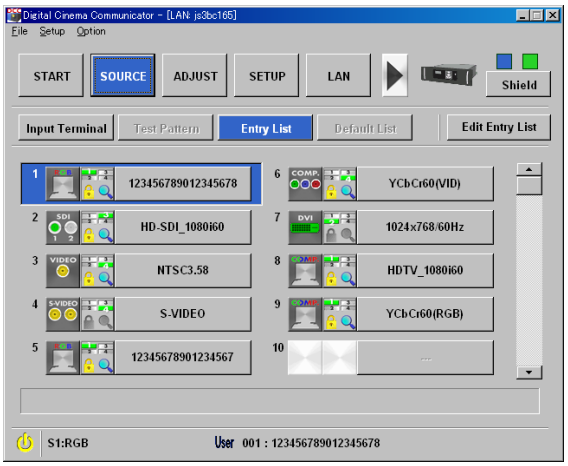


[3] Press the "Store" button.

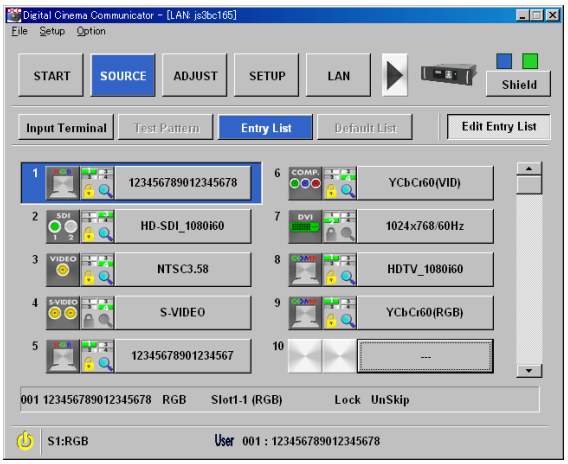


Selecting signal from Entry List (Load)

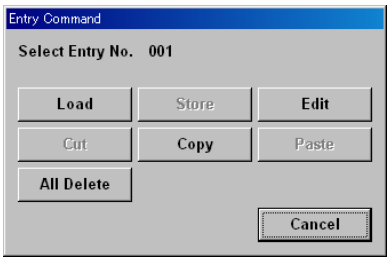
[1] Press the "Edit Entry List" button.



[1] Select a signal from the list.

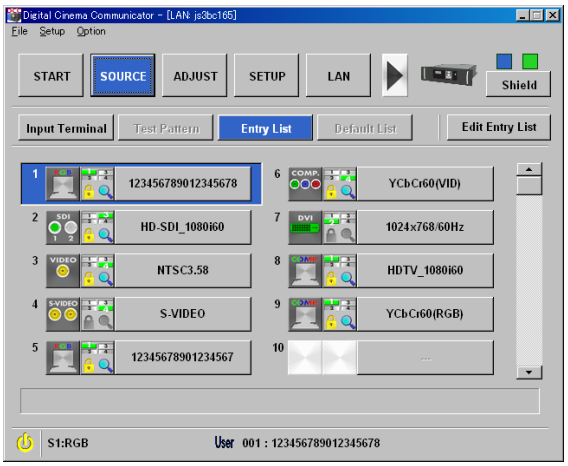


[2] Press the "Load" button.

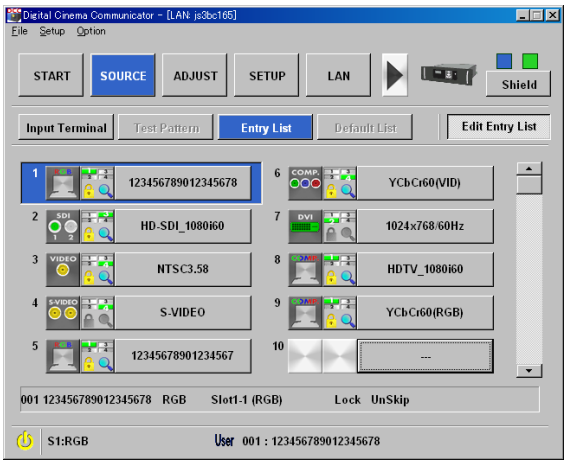


Editing signal of Entry List (Edit)

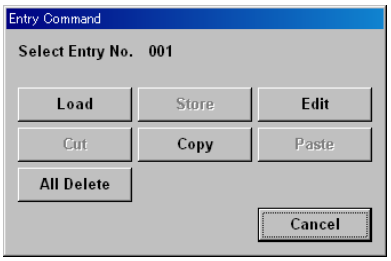
[1] Press the "Edit Entry List" button.

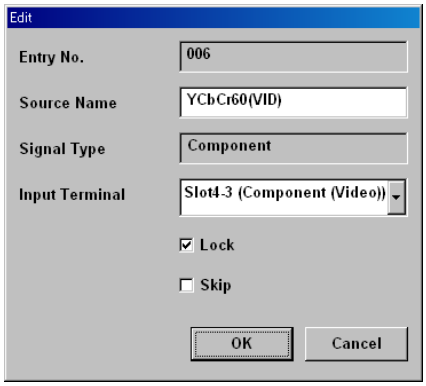


[2] Press the number to be registered by the Edit Entry List.



[3] Press the "Edit" button.



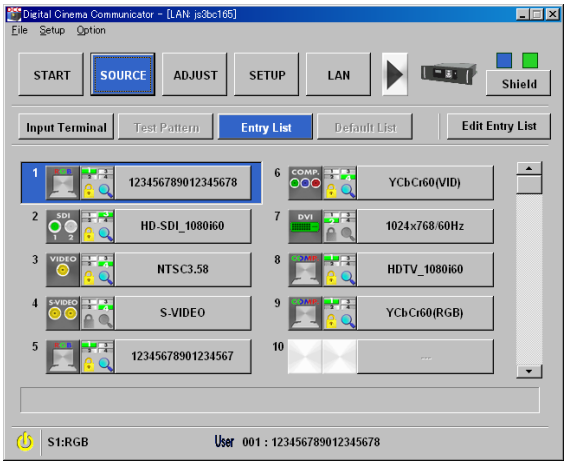


Entry No.	To display the registration No. (Read only)
Source Name	Up to 18 alphanumeric characters can be used.
Signal Type	To display the signal format. (Read only)
Input Terminal	Video and S-video signals can be switched between video and S-video. When editing the signal currently projected, you cannot change the input terminal.
Lock	Set so that the selected signal cannot be deleted when "All Delete" is executed. The changes cannot be saved.
Skip	Set so that the selected signal will be skipped during auto search.

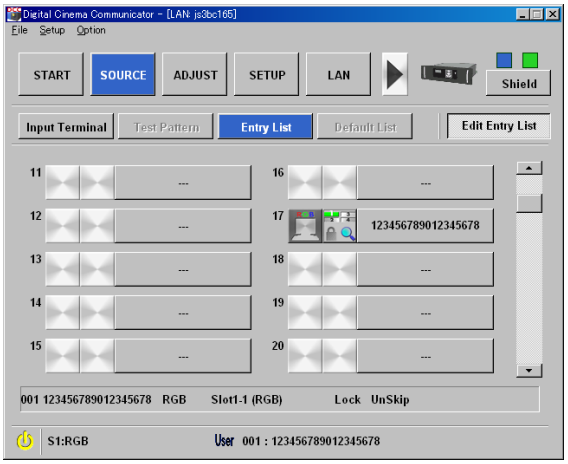
[1] Click on the "OK" button.

Cutting signal from Entry List (Cut)

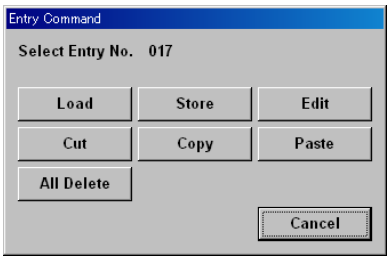
[1] Press the "Edit Entry List" button.

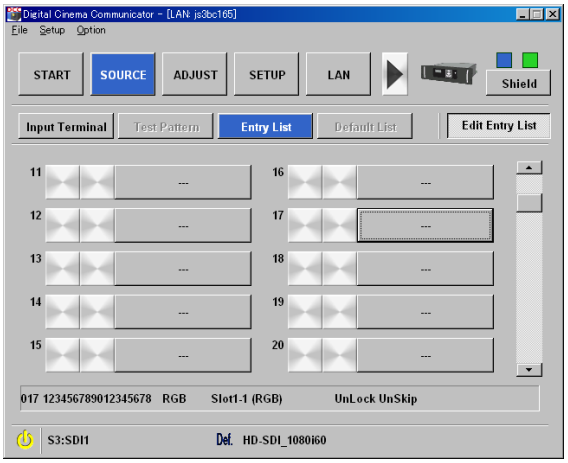


[1] Press the signal to be deleted by the Entry List.



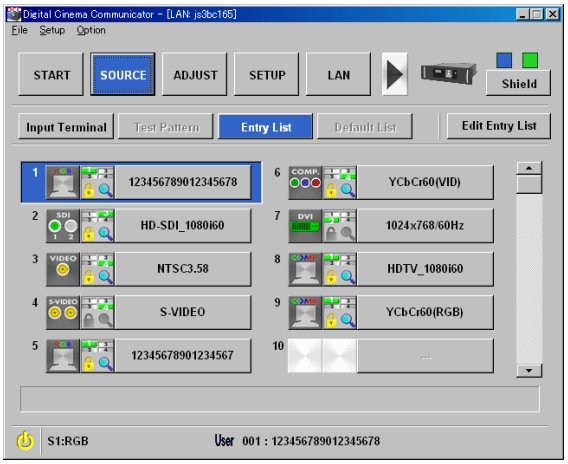
[2] Press the "Cut" button.



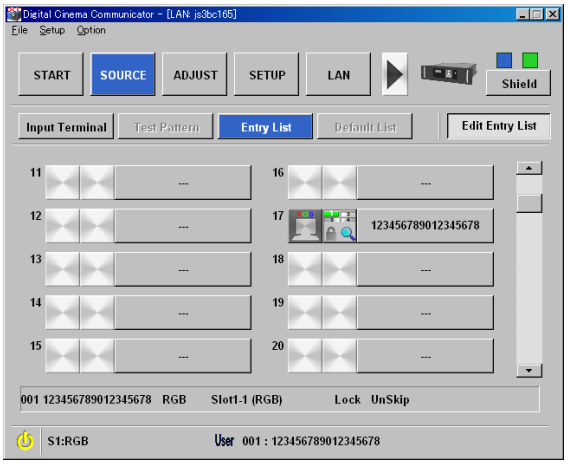


Copying signal of Entry List (Copy/Paste)

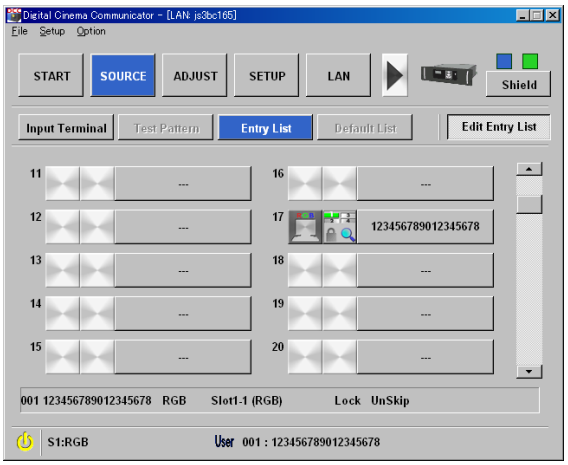
[1] Press the "Edit Entry List" button.



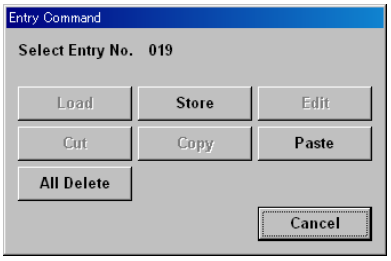
[2] Press the signal to be copied in the Entry List.



[3] Press the number of the pasting destination in the Entry List.

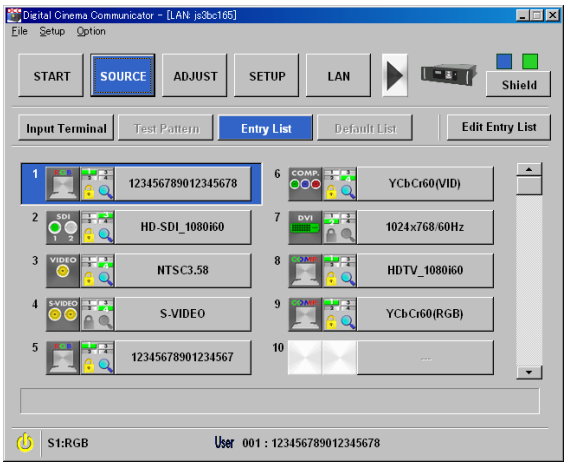


[4] Press the "Paste" button.

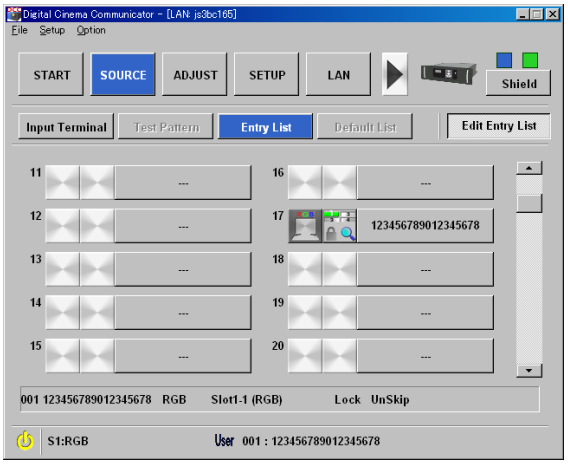


Deleting all items in Entry List (All Delete)

[1] Press the "Edit Entry List" button.

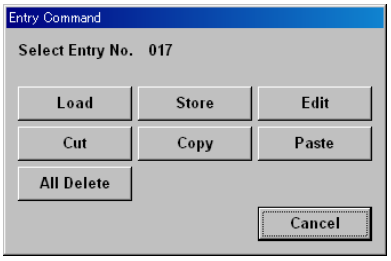


[2] Press any signal in the Entry List.



[3] Click on the "All Delete" button.

When a confirmation dialog is displayed, press the "Yes" button.



4-4-4. Default List

A signal list at factory shipment is displayed.

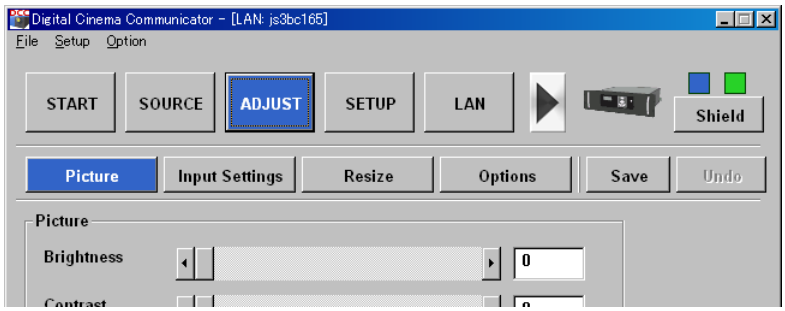
4-5. ADJUST Screen

When the "ADJUST" button on the menu bar is pressed, the ADJUST screen is displayed.
On the ADJUST screen, adjust the image that is projected on the screen.
The ADJUST screen comprises the following four screens.

- Picture :Adjust the brightness, contrast, color, phase, and sharpness. (See next page)
- Input Settings :Adjust input signals. (page 137)
- Resize :Adjust the image size.(page 142)
- Options :Adjust various attributes such as noise reduction. (page 146)

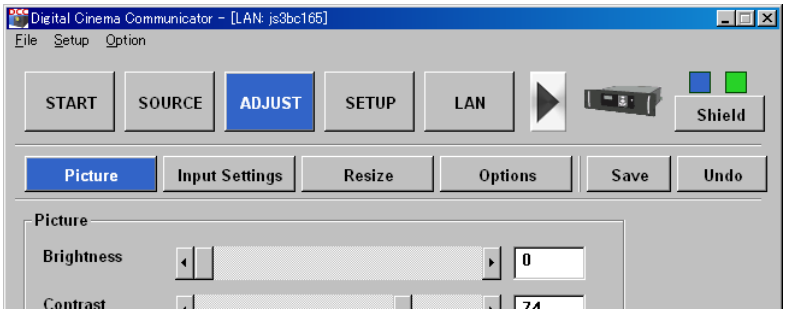
Save the adjusted values.

On the ADJUST screen, the adjusted values can be saved in the switcher memory. To save the adjusted values, press the "Save" button on the ADJUST screen. The contents that are saved are the adjustment value of all the sub-screens (Picture, Input Settings, Resize, and Options) of the ADJUST screen.



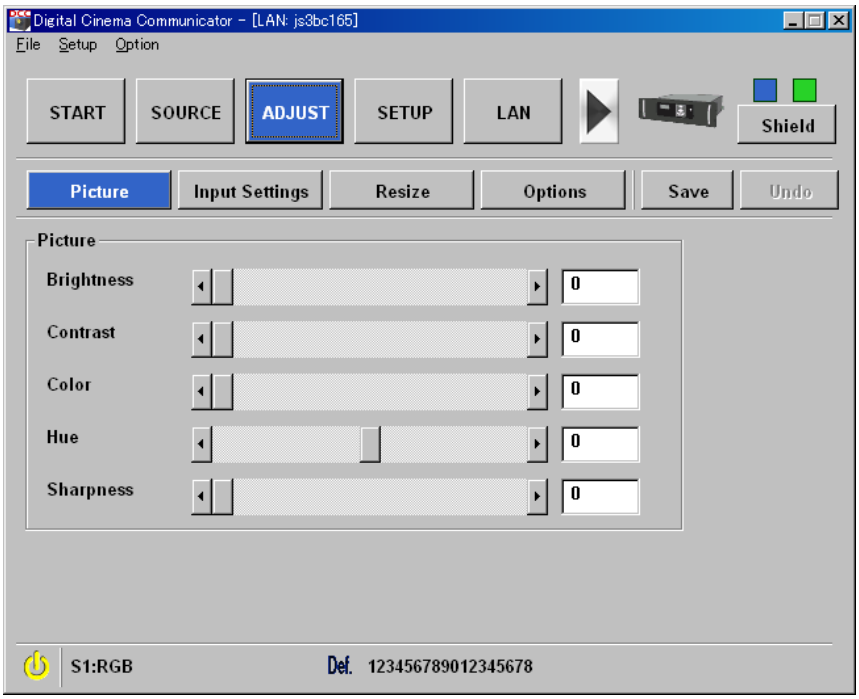
Return the adjustment values to the original value.

To reset the adjusted values to the state where they were saved, press the "Undo" button on the ADJUST screen.



4-5-1. Picture

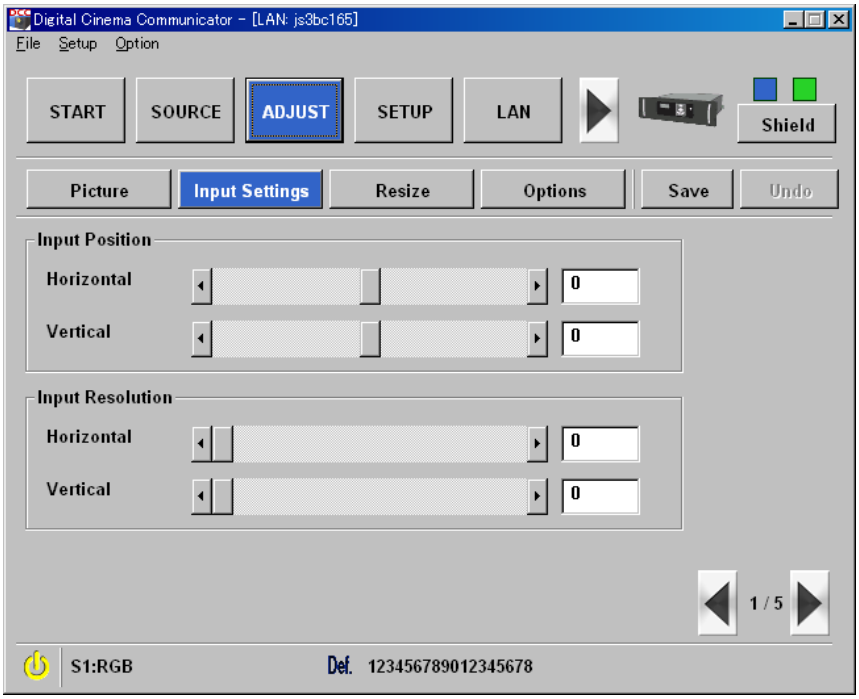
On this screen, you can adjust the brightness, contrast, color, phase, and sharpness of the image.



Brightness	Adjusts the brightness level or the back raster intensity.
Contrast	Adjusts the intensity of the image according to the incoming signal.
Color	Increases or decreases the color saturation level.
Hue	Varies the color level from +/- green to +/-blue. The red level is used as reference.
Sharpness	Controls the detail of the image.

4-5-2. Input Settings

On this screen, you can adjust input signals.
The ADJUST screen (Input Settings) comprises five pages. To switch pages, press the button at the right-bottom of the screen.



- **Input Position**

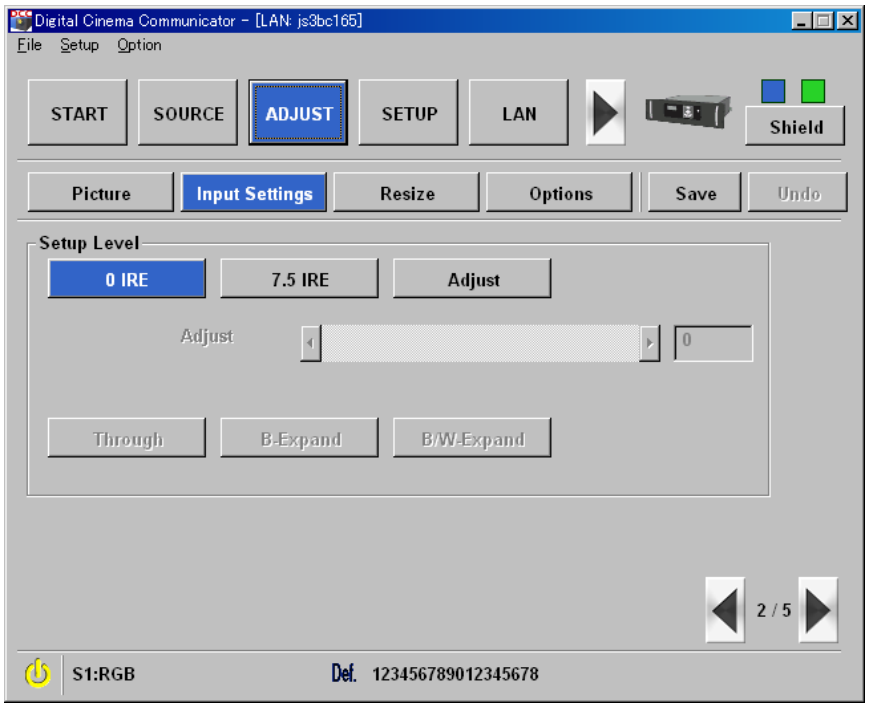
  Adjust the taking start position for the input video images.

Horizontal	To adjust the taking start position (horizontal).
Vertical	To adjust the taking start position (vertical) .

- **Input Resolution**

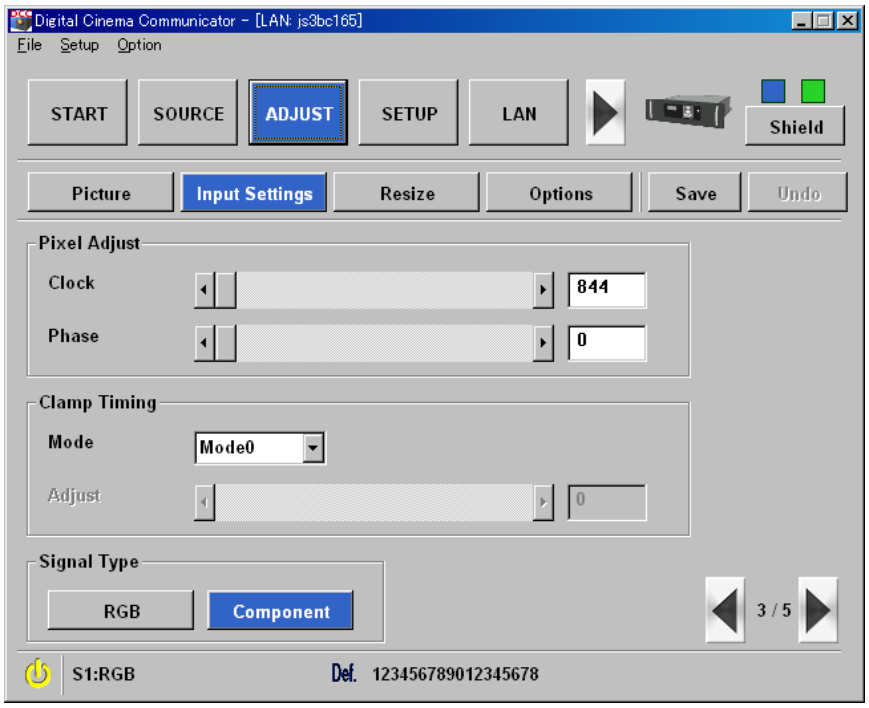
  Adjust the taking width for the input video images (vertical/horizontal).

  When the resolution of the input signal cannot be detected properly with Auto Adjust, this function can be used to manually set the correct resolution.



- **Setup Level**

  "7.5 IRE" must be chosen to project products manufactured in USA. Through, B-Expand, and B/W-Expand are enabled only when the input signal is SDI.



- **Pixel Adjust**

Displays the Clock and Phase adjustments.

Clock	Use this item to fine tune the computer image or to remove any vertical banding that might appear.
Phase	Use this item to adjust the clock phase or to reduce video noise, dot interference or cross talk.

- **Clamp Timing**

Use this to adjust the black level clamp for RGB/YCbCr signal input. Execute this adjustment mainly when non-standard signal is input.

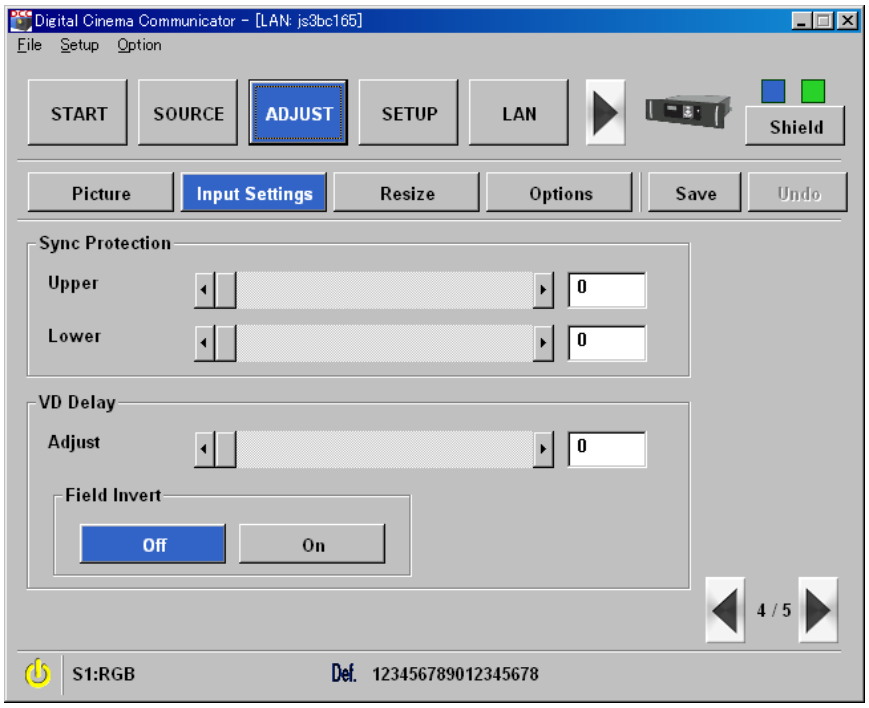
Select one from Mode 0 to Mode 4 to obtain the optimum image quality. If the image quality is not improved, select "Adjust" and make adjustments using the slide bar.

- **Signal Type**

If the image color is unnatural when RGB or component signal is projected, switch the setting.

This function is available only when any terminal of the MM-RGB board is selected.

RGB	To switch to RGB input.
Component	To switch to component signal input.



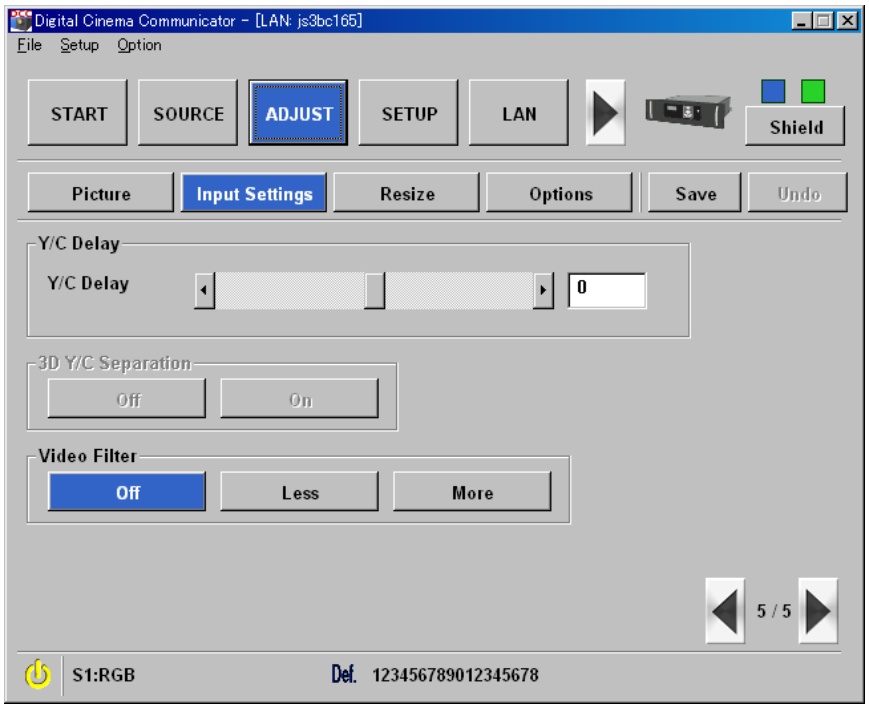
- **Sync Protection**

  When a VCR, DVD, or some other equipment that supports Copy-guard (a copy prevention system) is played back, the screen may be displayed in a curved manner. Adjustments are made in such circumstances.

Upper	To adjust the winding of image at the screen top (copy guard signal, mask start position)
Lower	To adjust the winding of image at the screen bottom (copy guard signal, mask end position)

- **VD Delay**

Adjust:	This feature is used to correct vertical jitter of a signal. When connecting with a scan converter: If an image from the scan converter is not correctly displayed, adjust to select the best level point so that the image is displayed correctly.
Field Invert:	This feature is used to correct diagonal lines of a non-standard interlaced signal when they appear jaggy. Invert the odd or even field of a video signal.



- **Y/C Delay**

  Use this to adjust the phases of brightness (Y) signal and color (C) signal. Execute adjustment when the color at the video image contour is not appropriate.

  You cannot select this for RGB signal.

- **3D Y/C Separation**

  This option turns on or off the 3 dimension separation feature.

  This can be selected only for the NTSC 3.58 composite video signal.

- **Video Filter**

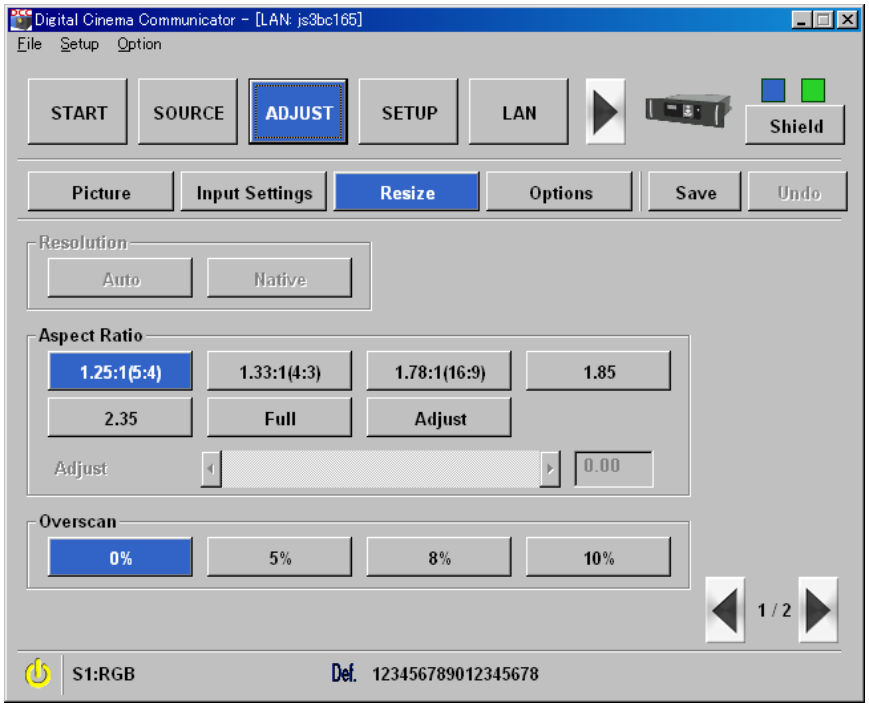
  Grainy image or jitter (slight shaking of characters) by the RGB signal and the component signal are reduced.

  When the switcher is shipped from the plant, it is set to the status suitable to each signal in advance. Set this when grainy images or jitter are noticeable depending on the signal.

Off	Video Filter is not used.
Less	Video Filter is used a little bit.
More	Video Filter is used a lot.

4-5-3. Resize

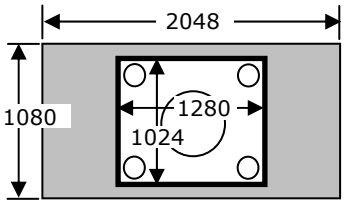
On this screen, you can adjust an image size.
The ADJUST screen (Resize) comprises two pages. To switch pages, press the button at the right-bottom of the screen.



- **Resolution**

  When projecting input signals, you can enlarge/reduce the image by maintaining the aspect ratio that is set in "Aspect Ratio".

Auto	This function enlarges or reduces the image with the signal resolution (VGA, SVGA, XGA, SXGA, U-XGA and so on) according to the display size set by "Output Resolution" with keeping the aspect ratio set by [Aspect Ratio]. Example: When the input signal is "SXGA (1280 * 1024)", the "Output Resolution" setting is "2K * 1K (2048 * 1080)" and the "Aspect Ratio" setting is "1.25:1 (5:4)"

Native	Projects at the native resolution. Example: When the input signal is "SXGA (1280 * 1024)", the "Output Resolution" setting is "2K * 1K (2048 * 1080)" 

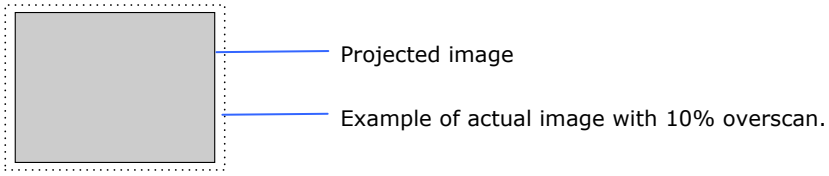
- **Aspect Ratio**

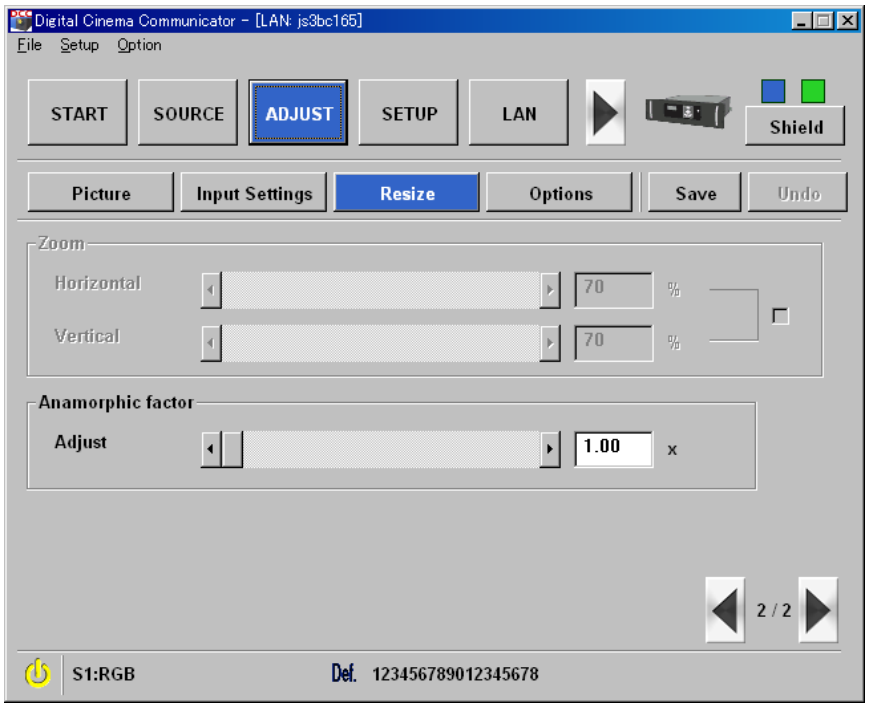
You can select the aspect ratio for input signal.

1.25:1 (5:4)	Select this for input of 5:4 SXGA signal
1.33:1 (4:3)	Select this for input of 4:3 signal
1.78:1 (16:9)	Select this for input of 16:9 squeeze signal
1.85:1	Select this for input of 1.85:1 Vista size signal.
2.35:1	Select this for input of 2.35:1 Cinemascope signal.
Full	Select this to have the ratio corresponding to the output resolution of the switcher.
Adjust	Select this to set the aspect ratio freely.

- **Overscan**

  Set the ratio of overscan (processing to cut the frame area around the screen).
  You can select a percentage from 0%, 5%, 8%, and 10%.





- **Zoom**

  This menu is enabled in service mode.

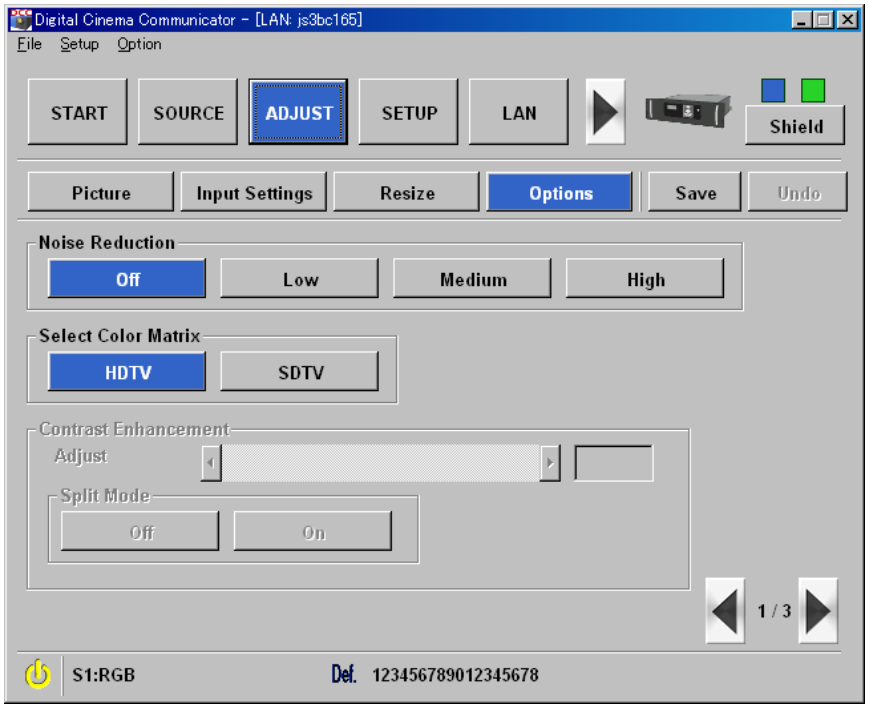
  Vertical and horizontal enlarge ratios are individually adjusted.

- **Anamorphic Factor**

  Adjust the horizontal reduction magnification (anamorphic factor) of the input video image. With the anamorphic lens or the like mounted to the projector, you can reduce the video image that is projected with horizontal enlargement and resize it. Use this to project ordinary contents without removing the anamorphic lens.

4-5-4. Options

On this screen, you can make various adjustments such as noise reduction.
The ADJUST screen (Options) comprises three pages. To switch pages, press the button at the right-bottom of the screen.



- **Noise Reduction**

  Select one of the three levels for reducing video noise: Low, Medium or High.
  This can be used with SDTV signal. This feature is not available for RGB signal.

- **Select Color Matrix**

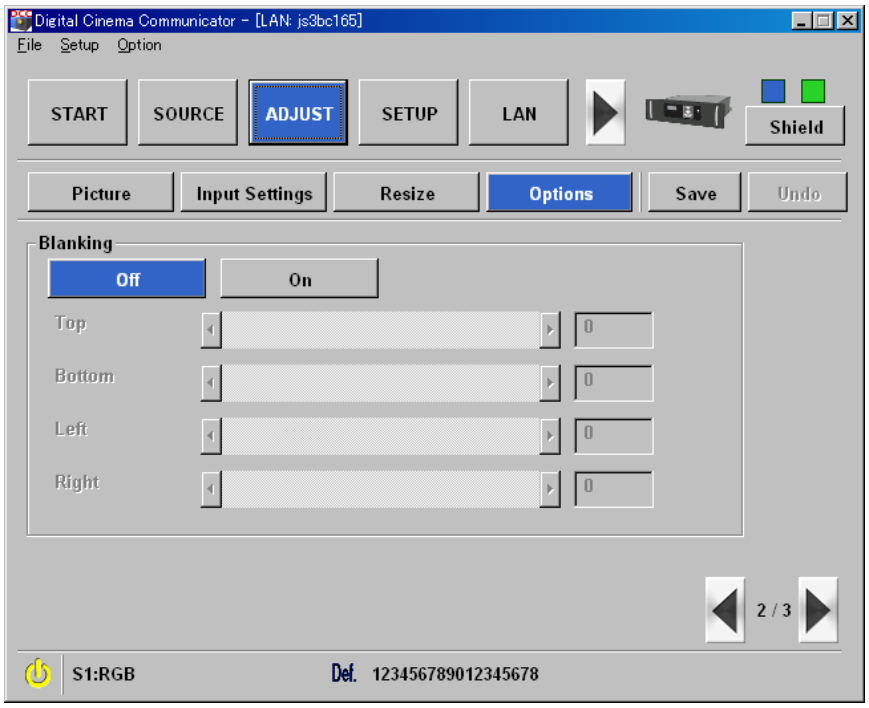
  Selects the signal type.

HDTV	Color matrix according to high definition TV specifications
SDTV	Color matrix according to standard TV specifications

- **Contrast Enhancement**

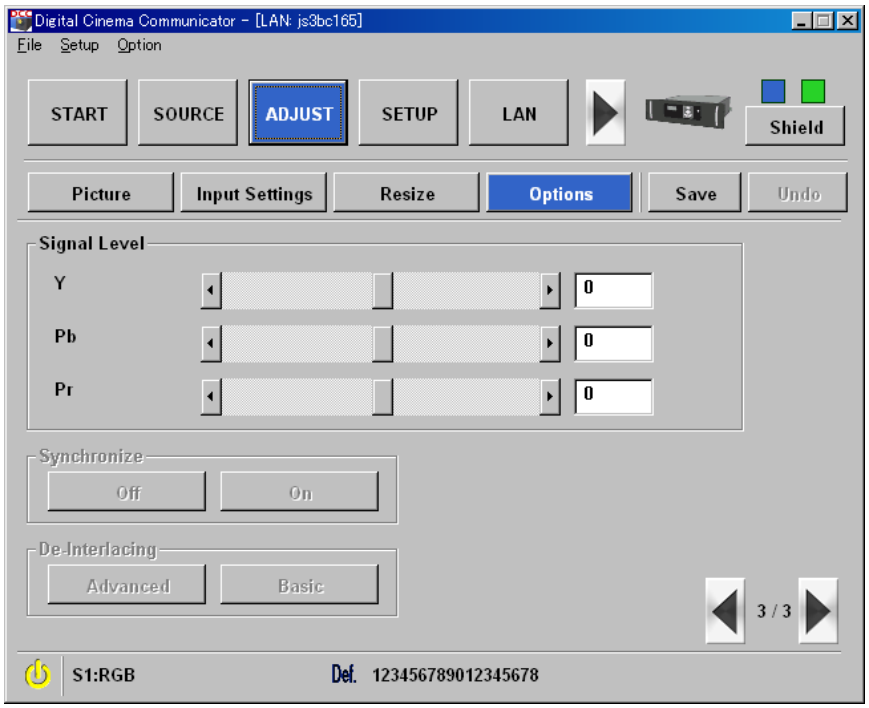
  This function improves the video contrast taking advantage of human view characteristics. This is enabled for the signal input to MM-VIDEO and for the SD-SDI signal input to MM-SDI (optional).

  This cannot be used with 1080 HDTV signals (MM-RGB, MM-SDI).



- **Blanking**

  The display range (Blanking) is adjusted at the top end, bottom end, left end and right end of the video signal.



- **Signal Level**

  Adjust the input level of each signal. The adjustment items depend on the input signal. This function is available only when any terminal of the MM-RGB board or MM-VIDEO board is selected.

When RGB signal is input	Red/Green/Blue
When video/S-video/component signal is input	Y/Cb/Cr
When HDTV signal is input	Y/Pb/Pr

- **Synchronize**

  This function is enabled when "Output Timing" (see Page 151) on Page 2 of Setup Menu is set for synchronization. Use this to change the synchronization mode of the projected signal.
  When the vertical frequency of the input signal exceeds 60Hz, this function cannot be used. In this case, the setting is "Off".

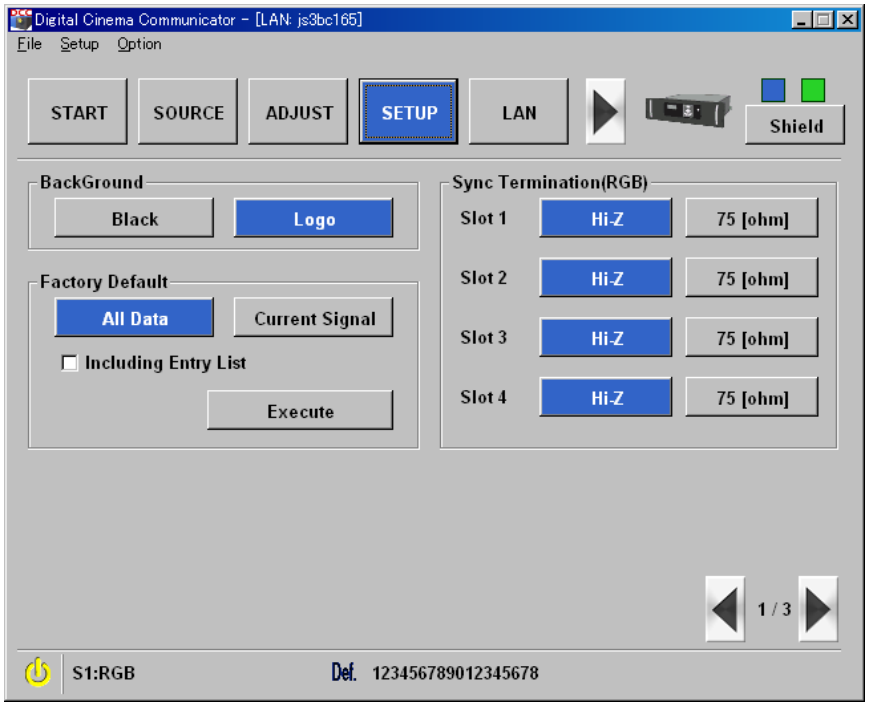
- **De-Interlacing**

  When the interlace signal is input, select the de-interlace processing mode of the switcher. Usually, select "Advanced (Default)".
  If you select Basic, the video delay caused in the switcher becomes smaller(*), but the image quality is deteriorated.

  (*) The difference of the video delay caused in this unit is as follows:
  (Delay for "Advanced") – (Delay for "Basic") = Delay for 4 vertical synchronizations

4-6. SETUP Screen

When the "SETUP" button on the menu bar is pressed, the SETUP screen is displayed.
On the SETUP screen, you can set various attributes of the switcher.
The SETUP screen comprises three pages. To switch pages, press the button at the right-bottom of the screen.



- **Background**

  Select the background color when any signal is not input.

Black	For black background color.
Logo	For display of image at background.

- **Factory Default**

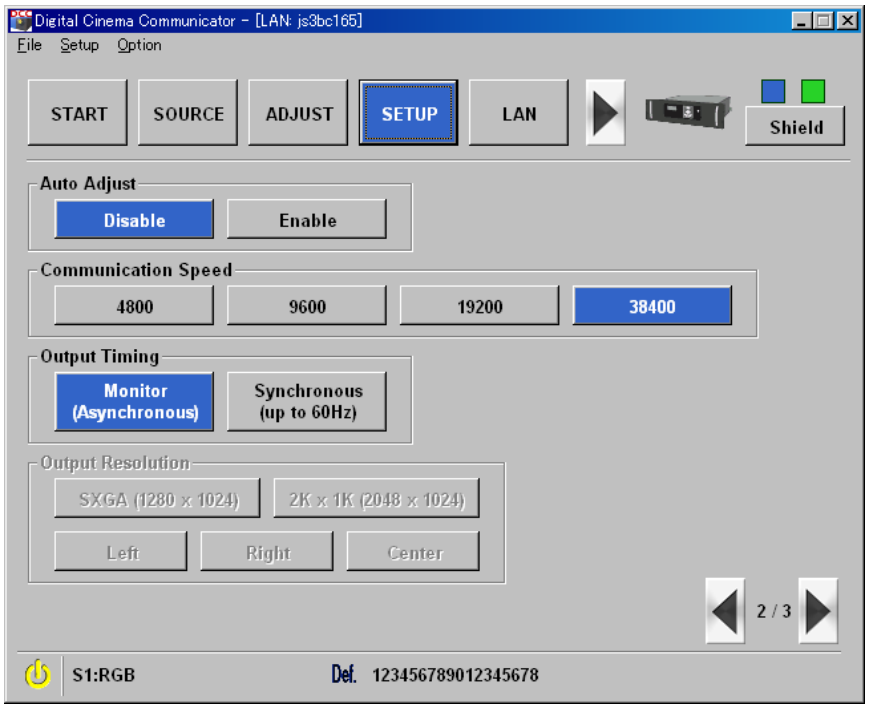
  Reset various settings and the signals registered to the "Entry List" to the status when shipped from the plant.

All Data	Use this to return all settings in the Setup menu to the status when shipped from the plant. After initialization, the selected input terminal is switched to Slot-1. When [Including Entry List] is checked, the signals already registered to the switcher are deleted in addition to those deleted by [All Data]. Note that, however, the locked signals are not deleted. To execute reset, press the "Execute" button
Current Signal	Use this to return the video adjustment of the currently displayed signal to the status when shipped from the plant and to display the image again.

- **Sync Termination (RGB)**

  Select the impedance of RGB input terminal (RGB).

Hi-Z	When the impedance of the output terminal on the connected device does not support 75 ohm.
75 [ohm]	When the impedance of the output terminal on the connected device supports 75 ohm.



• **Auto Adjust**

Enabling Auto Adjust. When "Auto Adjust" is set to "Enable", the Switcher automatically determines the best resolution for the current RGB input signal to project an image.
The image can be automatically adjusted for position and stability;
"Horizontal Position", "Vertical Position", "Clock", "Phase" and "Resolution".

Disable	User can adjust the image display functions ("Horizontal Position", "Vertical Position", "Clock", "Phase" and "Resolution") manually.
Enable	Automatically adjusts image "Horizontal Position", "Vertical Position", "Clock", "Phase" and "Resolution".

• **Communication Speed**

To set the serial communication speed of the switcher.

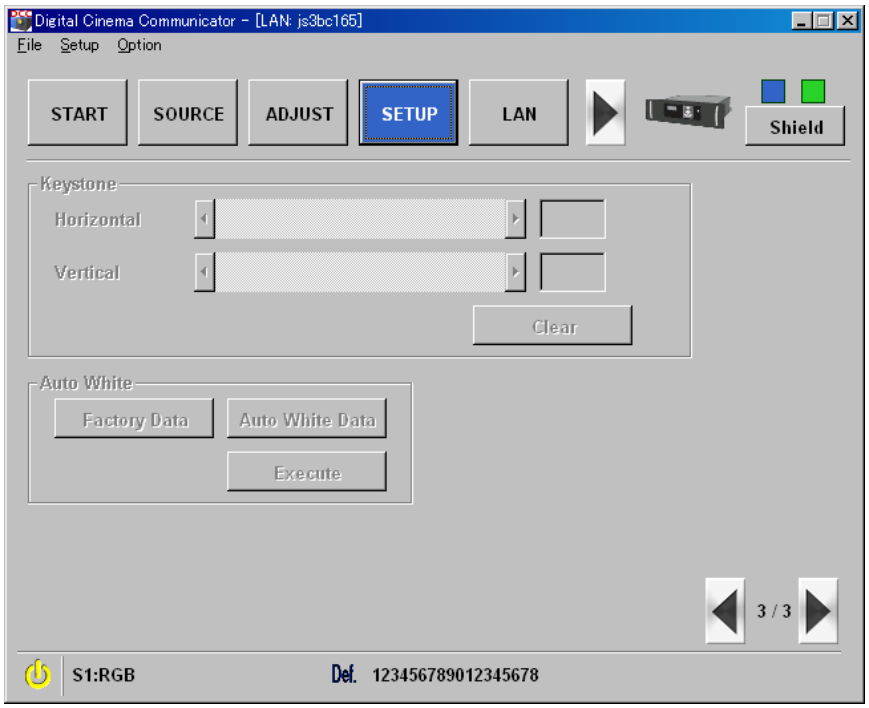
• **Output Timing**

This selects the format of the DVI output signal.

Output Timing Setting		Refresh rate
SXGA	Monitor Asynchronous	60 Hz fixed, Asynchronous output
	Synchronous(up to 60 Hz)	Synchronized with input. Fixed output at 60 Hz for input over 60 Hz.
2K x 1K (2048 x 1080)	Monitor Asynchronous	60 Hz fixed, Asynchronous output
	Synchronous(up to 60 Hz)	Synchronized with input. Fixed output at 60 Hz for input over 60 Hz.

• **Output Resolution**

This menu is enabled in the service personnel mode.
This selects the display resolution of the DLP cinema projector that is connected to the DVI output connector. SXGA (1280*1024) is for inspection. Use 2K*1k (2048*1080).



- **Keystone**

  This is for correction of the keystone distortion. To return to the status without correction, press "Clear" button.

- **Auto White**

  The colors R, G and B are automatically adjusted to the optimum input levels when the RGB type signal is input.

  For automatic adjustment, check [Auto White Data] and press "Execute" button with a window video data having a white area representing at least 50% vertically and horizontally displayed at the center.

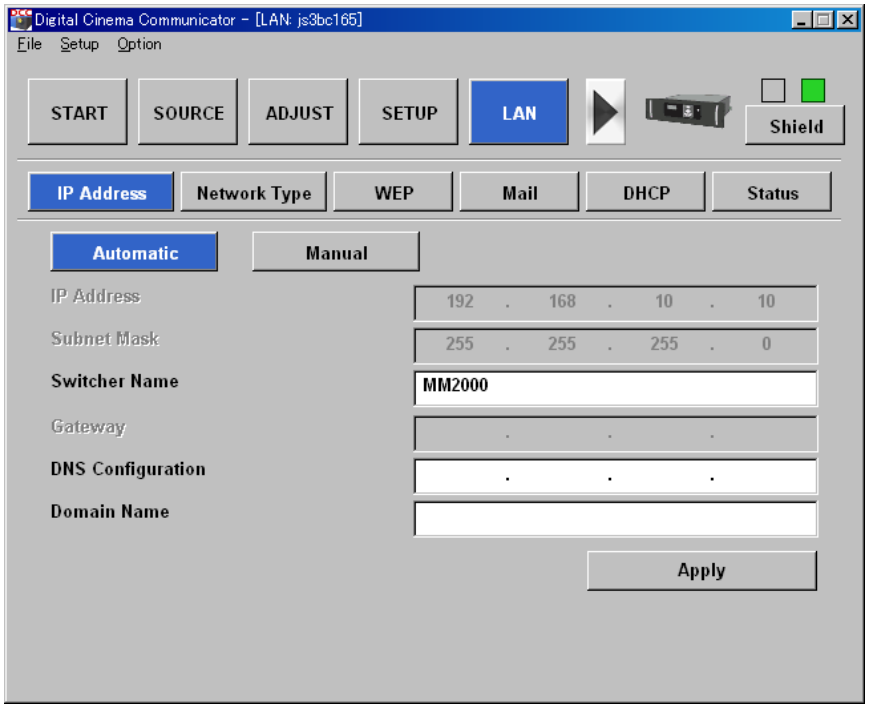
  This function is available only when a terminal of the MM-RGB board is selected.

4-7. LAN Screen

This menu is available for the MM2000 only. The menu can be used in Installation mode or Service mode only. When the "LAN" button on the menu bar is pressed, the LAN screen is displayed.
On the LAN screen, set LAN of the switcher.
The LAN screen comprises the following six screens.

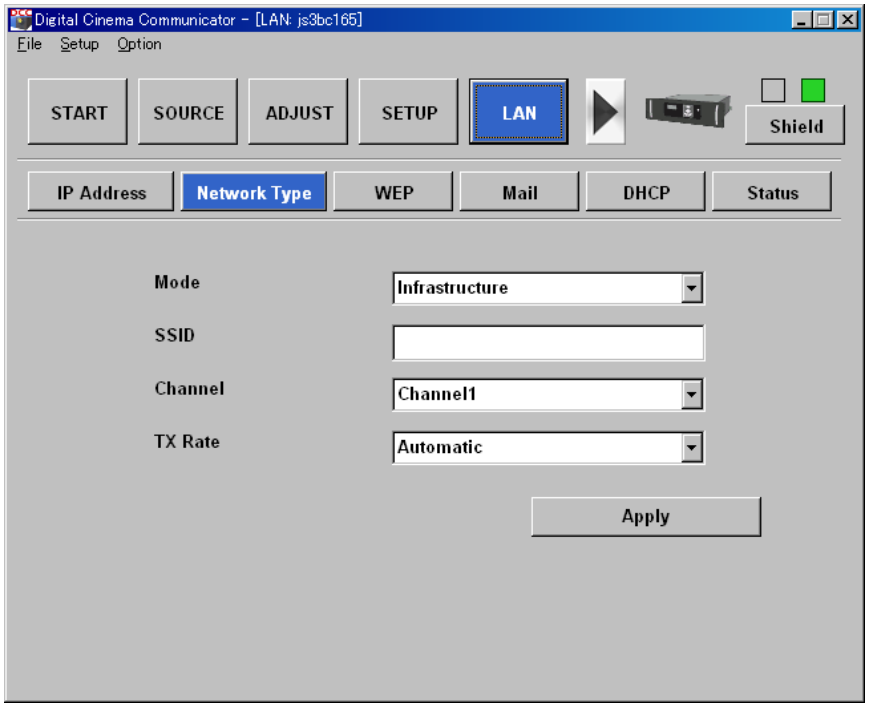
- IP Address : Set an IP address of the switcher.
- Network Type : Set a communication mode when using wireless LAN.
- WEP : Set WEP (encryption) when using wireless LAN.
- Mail : Set a mail notification function.
- DHCP : Set a DHCP server.
- Status : Displays a network setting status of theswitcher.

4-7-1. IP Address



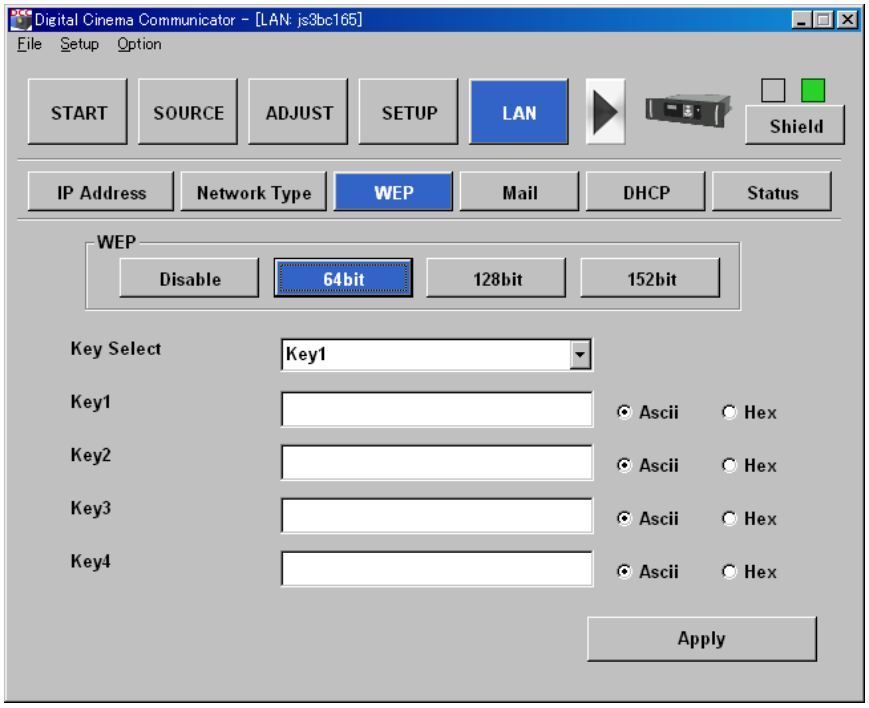
"Automatic" button "Manual" button	An IP address can be automatically assigned to this Switcher by your DHCP server. If your network does not automatically assign IP address, ask your network administrator for an address, and then register it manually. - Automatic: Automatically assigns an IP address to the Switcher from a DHCP server. - Manual: Provides a space for you to register the IP address or subnet mask number obtained from your network administrator.
IP Address	Set/display your IP address.
Subnet Mask	Set/display your subnet mask number.
Gateway	Set/display the default gateway of the network connected to the Switcher. - With a check mark: The address set as the default gateway below is enabled. - Without a check mark: Default gateway is not set.
DNS Configuration	Type in the IP address of DNS server on the network connected to the Switcher.
Domain Name	Type in domain name of the network connected to the Switcher.
Apply	Change contents are updated.

4-7-2. Network Type



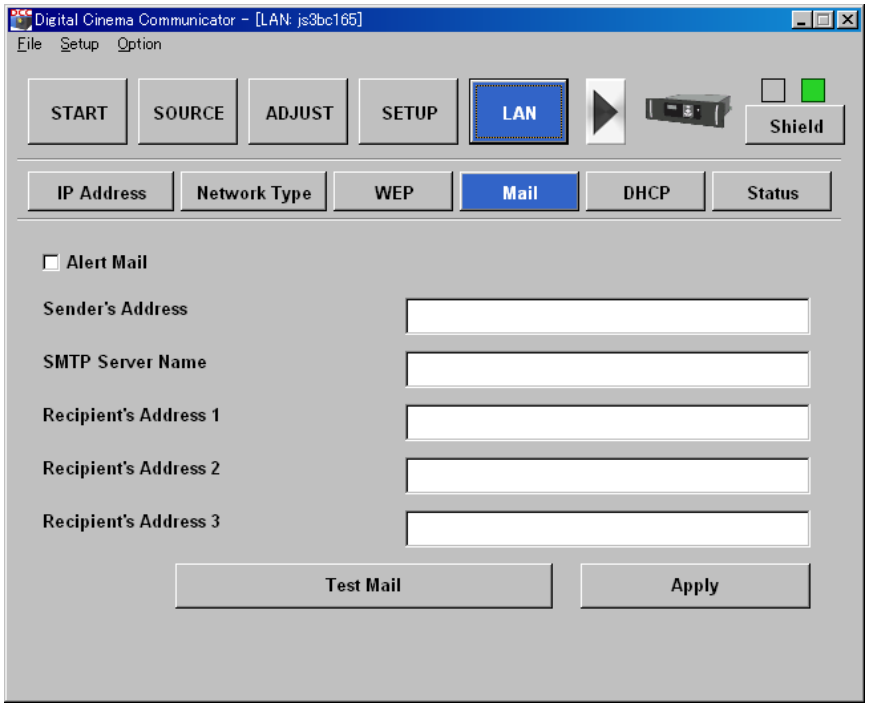
Mode	Select communication method when using wireless LAN. - Infrastructure: Select this option when communicating with one or more equipment connected to the wireless or wired LAN network via an access point. - 802.11Adhoc: Select this option when using the wireless LAN to communicate with a computer in a one-to-one correspondence. This is a method that meets the IEEE802.11 wireless standard.
SSID	Enter an identifier (SSID) for wireless LAN. Communication can be done only with equipment whose SSID matches SSID for your wireless LAN.
Channel	Set this option when selecting [802.11 Ad Hoc] in [Mode]. Select a channel number from the pull-down list. The channel must match for all wireless devices communicating on your wireless LAN. Channels in the pull-down list are different depending on which country you live in.
TX rate	Select a wireless transmission speed. Normally leave it as Automatic. Try another transmission speed when the connection fails.
Apply	Change contents are updated.

4-7-3. WEP



WEP	Select this option whether using the WEP (Wired Equivalent Privacy) key for encryption or not. To use encryption, specify WEP key. - Disable: Will not turn on the encryption feature. Your communications may be monitored by someone. - 64bit: Uses 64-bit datalength for secure transmission. - 128bit: Uses 128-bit datalength for secure transmission. This option will increase privacy and security when compared to use of 64bit datalength encryption. - 152bit: Uses 152-bit datalength for secure transmission. This option will increase privacy and security when compared to use of 128bit datalength encryption.
Key Select	Selects one key from the four keys below when selecting [64bit], [128bit] or [152bit] in [WEP].
Key 1 to Key 4	Enter encryption key when selecting [64bit], [128bit] or [152bit] in [WEP].
Apply	Change contents are updated.

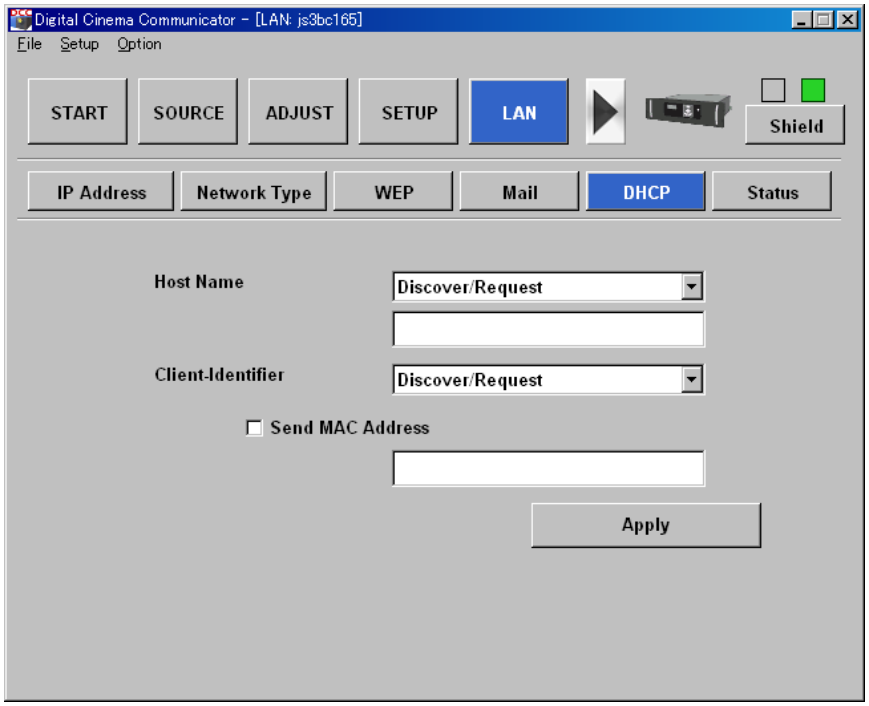
4-7-4. Mail



Alert Mail	This option notifies your computer of an error message via email when using wireless or wired LAN. - Check On :To enable the mail notification function - Check off :To disable the mail notification function
Sender’s Address	Enter the sender's address for the email from your projector. This address is for “From:” of the email.
SMTP Server Name	Set the SMTP server of the network to which the projector is connected.
Recipient’s Address 1 to 3	Enter the recipient's address for the email from your projector. You can set up to 3 recipient’s addresses. This address is for “To:” of the email.
Test Mail	Click on this button to check the email data you have entered above.
Apply	Change contents are updated.

4-7-5. DHCP

Depending on your network environment, acquiring an IP address from a DHCP server may not be possible.
Should this happen, consult your network administrator to make changes to the following settings.



Host Name	Select whether or not you want to add Host Name option in DHCP processing. Input the host name used by the Host Name option below. - None : Do not add the option. - Request : Add the option at the time of DHCP_REQUEST. - Discover/Request : Add the option at the time of DHCP_DISCOVER and DHCP_REQUEST.
Client-Identifier	Select whether or not you want to add Client-Identifier option in DHCP processing. - None : Do not add the option. - Request : Add the option at the time of DHCP_REQUEST. - Discover/Request : Add the option at the time of DHCP_DISCOVER and DHCP_REQUEST.
Send Mac Address	MAC address is used as the identifier in the Client-Identifier option. Input the string used as the identifier in the Client-Identifier option below. - With check mark : Use the MAC address as the identifier. - Without check mark : Do not use the MAC address as the identifier.
Apply	Change contents are updated.

4-7-6. Status

Switcher Name	When several switchers including this one are connected to the LAN, this is used to recognize the switcher on PC.
IP Address	To display the IP address of the switcher.
Subnet Mask	To display the subnet mask.
Gateway	To display the default gateway of the network to which the switcher is connected.
Mac Address	To display the MAC address of the switcher or the wireless LAN card set to the PC.

4-8. INFO Screen

When the "INFO." button on the menu bar is pressed, the INFO screen is displayed.
The INFO screen displays the information of the signal that is being projected and switcher status.
The INFO screen comprises the following two screens.

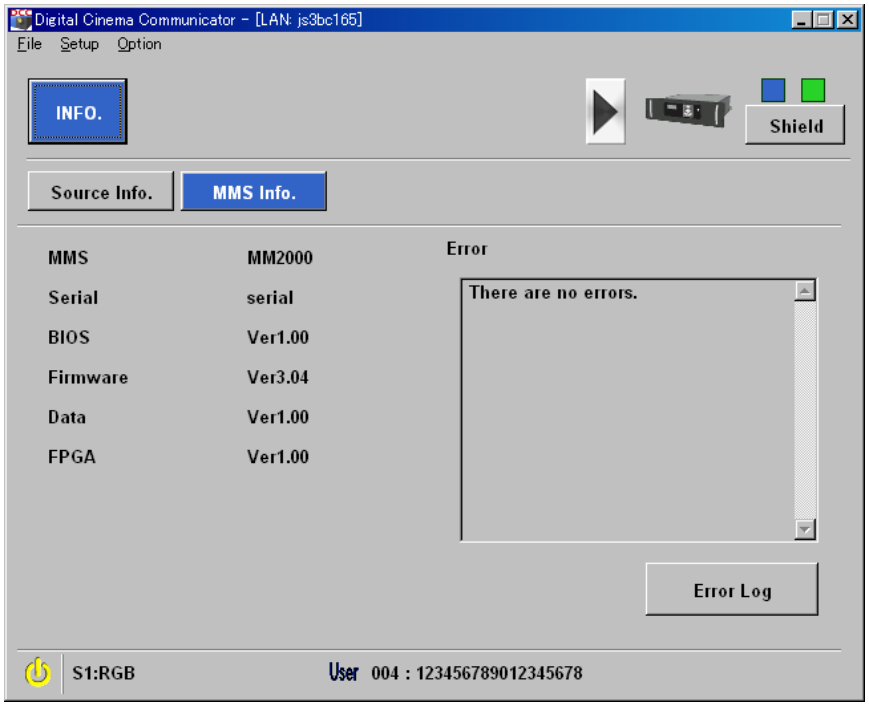
・Source Info. : Displays the information on the signal that is input to the switcher. (See this page)
・MMS Info. : Displays version information and error information of the switcher. (See next page)

4-8-1. Source Info.

This function displays the information of the signal input to the machine.
Use this to check whether the input signal is suitable to the machine when colors in the display screen are extremely inappropriate, images are rolling or video images do not appear. Also refer to Corresponding Resolution List (see " User's Manual").

4-8-2. MMS Info.

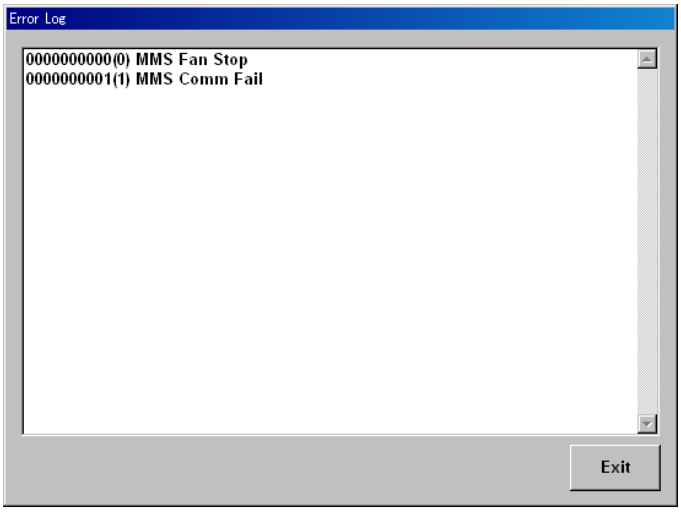
Version information and error information of the switcher can be confirmed.



- **Error Log**

  This function is available on MM2000 only.

  The history of errors that have occurred in MM2000 is displayed.



5.

Appendix

5-1. Trouble Shooting

Phenomenon	Checkpoint	Reference page
Power cannot be turned on.	Is the power cable disconnected from the DC IN terminal on the touch panel?	
	When the projector head is the NC800 series: Is the AC power cable disconnected from the AC power cable?	
	Check if the power switch of the touch panel is set to "ON".	
Abnormal operation of touch panel.	Check if the screen is not contaminated.	
	Is the LAN cable that connects the touch panel to the projector head disconnected?	
	Check if the shield button is set to "ON".	
Input panel is not displayed.	Select (Tap) the input space to display the panel.	
Though use of the anamorphic lens (With Anamo.) is set in the title setting, the anamorphic lens does not move.	Check whether the cable of the anamorphic lens stand is disconnected.	
	Check whether "Turret" in the SETUP screen (Setup) is set to "Manual". For use of the anamorphic lens linked with the title, it is necessary to set "Automatic" or "Turret Ref. Select" to "With Anamo."	

5-2. Index

Number

3D Controls Screen 90
3D Y/C Separation 133

A

AC power adapter 10
ADJUST Screen 127
Adjusting Colors 41
Adjusting the Lens Setup and Lamp Brightness 46
Anamorphic Factor 137
Aspect Ratio 135
Auto Adjust 143
Auto White 144

B

Baudrate 96
Blanking 139
Bulb Alignment Screen 84
Bulb Entry Screen 84
Bundling bands 10
Bundling bands 9
Bushing 9, 10

C

Changing the menu mode 75
Cinema Reset 95
Clamp 9, 10
Clamp Timing 131
Communication Speed 143
Contrast Enhancement 139
Cooling 74
Copy 124
Creating a New PCF File 62
Creating a New SCREEN File 67
Creating a PCF File 62
Creating a SCREEN File 67
Creating New Titles 55
Cut 122

D

Date/Time 96
Default List 126
De-Interlacing 140
Deleting a Title 60
Description of the Touch Panel Sections 11
DHCP 150
Displaying TITLE Screen 54
Douser Mode 94

E

Edit 121
Editing a Title 59
Entry List 121
Error Log 153
Error Log Screen 92
Example of selecting a CSC file 64
Example of setting LUT-DG File 66
Example of setting SCREEN file 69
Example of setting SOURCE Fil 63

F

Factory Default 142
FactoryDefault 95
FeedBack 80
Focus 78
Following Setup 40

H

holder arm 9, 10

I

Image Orient 96
INFO Screen 91, 152
Information on Default Titles 48
Input icon 77
Input Position 129
Input Resolution 129
Input Settings 129
IP Address 146

K

Keystone 144

L

Lamp 74
Lamp Memory 80
Lamp Memory Screen 81
Lamp Operation Log Screen 81
Lamp Output 80
LAMP Screen 80
LAMP Screen (Adjust) 80
LAMP Screen (Information) 82
LAMP Screen (Setup) 83
LAN cable 9, 10
LAN Screen 100, 145
LAN Screen (DHCP) 105
LAN Screen (IP Address) 101
LAN Screen (Mail) 104
LAN Screen (Network Type) 102
LAN Screen (SNMP) 106
LAN Screen (WEP) 103
..... 97

Lens Center 97
Lens Memory 78
Lens Memory Screen 79
LENS Screen 78
List of Menu Items 72
List of Setting Items on Title Advance 88
Load 120

M

Mail 149
MAIN Screen 76
MMS Info. 153
Mounting metal 10
Mounting screws 9, 10

N

Network Type 147
Noise Reduction 138

O

Operation Log 80
Options 138
Output Resolution 143
Output Timing 143
Overscan 136
Overview of PCF File 62
Overview of SCREEN file 67
Overview of Titles 53

P

Panel Key Lock 95
Passcode 96
Paste 124
PCF Setting Screen 89
Picture 128
Pixel Adjust 131
Power supply cover 9, 10
Preset Button 76
PS cable 9, 10

R

Registering a Test Pattern for a Title 60
Registering Titles 48
Remaining Time 80
Resize 134
Resolution 134

S

Select Color Matrix 138
SETUP Screen 94, 141
SETUP Screen (Color Setting) 97
SETUP Screen (Installation) 96
SETUP Screen (MMS Setting) 99
Shift 78
Signal Level 130, 131, 140
Source Info. 152
SOURCE Setting Screen 89
Spiral tube 9
START Screen 74
Status 151
STATUS Screen 85
Store 119, 121
Store As 86
Sync Protection 132
Sync Termination(RGB) 142
Synchronize 140
System Log Screen 92

T

Test 76
TestPattern Advanced Screen 77
Title 76
Title Advanced Screen 87
TITLE Screen 86
Turret 95
Type icon 77

U

Usage 80
Usage Reset Log Screen 93

V

VD Delay 132
Video Filter 133

W

WEP 148
What's in the Box? 8

Y

Y/C Delay 133

Z

Zoom 78, 137